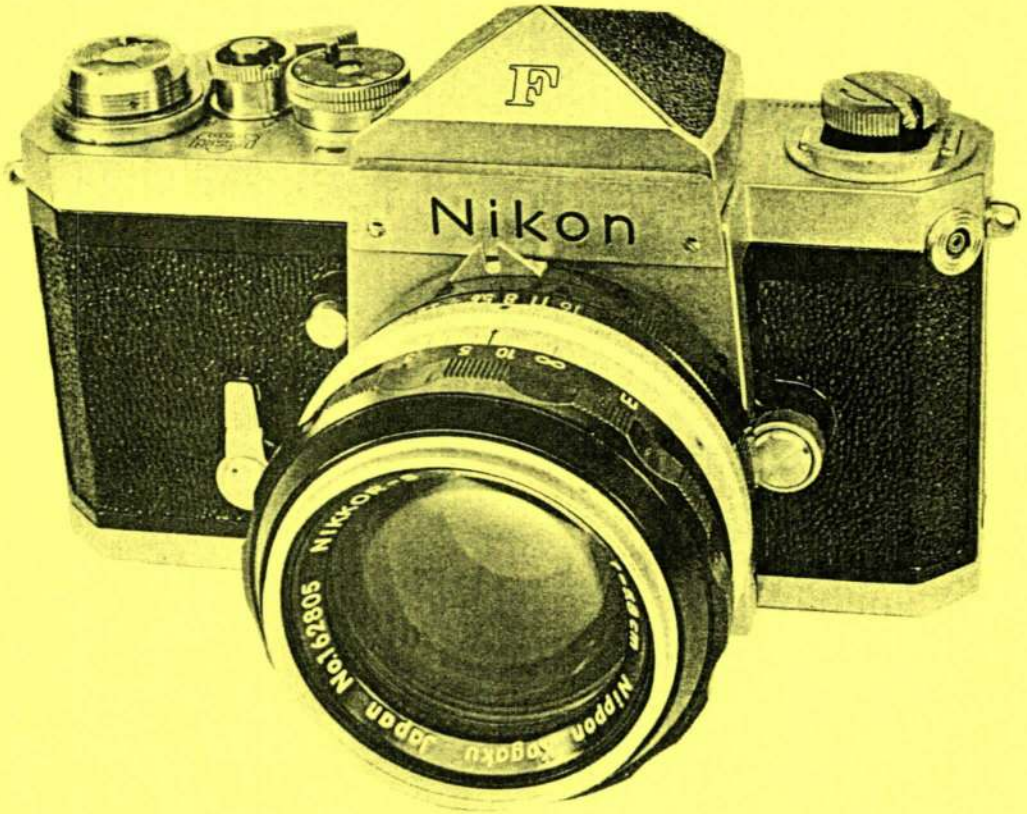
NIKON F



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TECHNICAL TRAINING DIVISION
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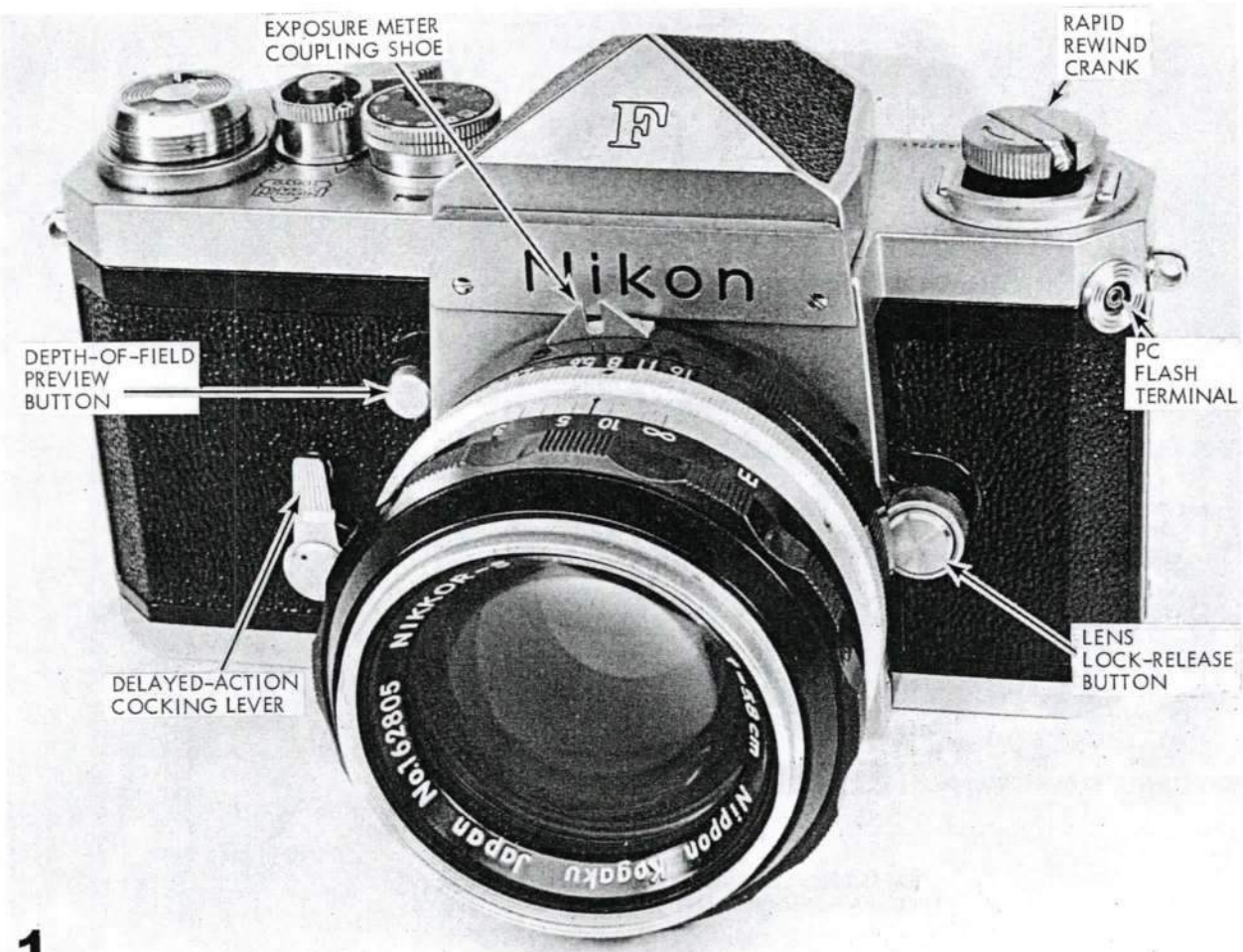
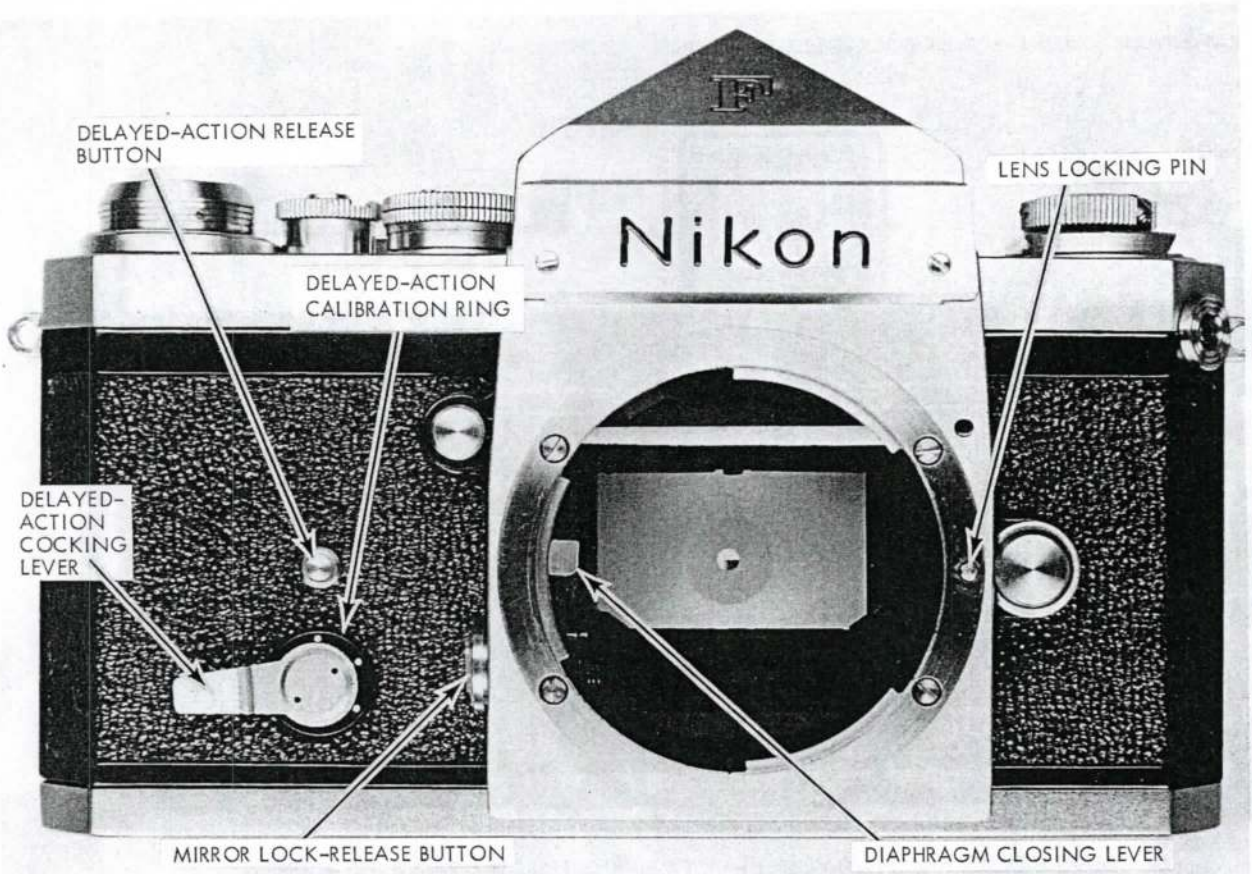
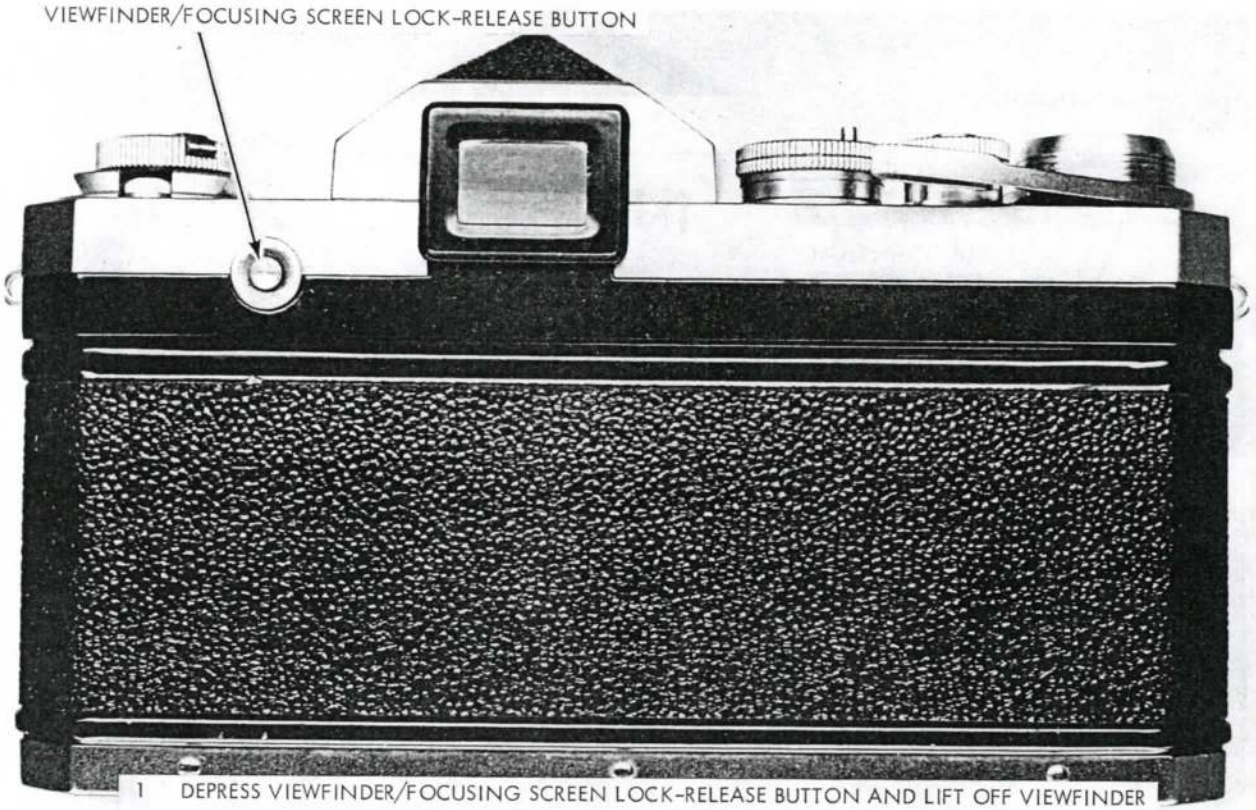

EXPOSURE METER
COUPLING SHOE
RAPID
REWIND
CRANK
F
Nikon
DEPTH-OF-FIELD
PREVIEW
BUTTON
PC
FLASH
TERMINAL
DELAYED-ACTION
COCKING LEVER
LENS
LOCK-RELEASE
BUTTON
NIKKOR-S
Nippon Kogaku Japan No.162805

1

2 DEPRESS LENS LOCK BUTTON AND REMOVE LENS FROM BAYONET MOUNT


DELAYED-ACTION RELEASE BUTTON
LENS LOCKING PIN
Nikon
DELAYED-ACTION CALIBRATION RING
DELAYED-ACTION COCKING LEVER
MIRROR LOCK-RELEASE BUTTON
DIAPHRAGM CLOSING LEVER

3

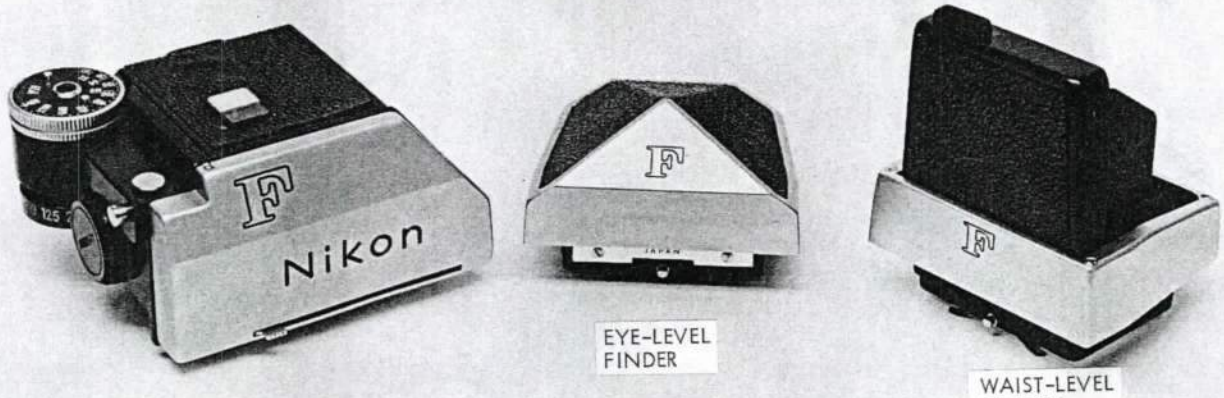


1 DEPRESS VIEWFINDER/FOCUSING SCREEN LOCK-RELEASE BUTTON AND LIFT OFF VIEWFINDER

4

2 INVERT CAMERA AND HOLD YOUR HAND OVER FOCUSING SCREEN CAVITY—DEPRESS VIEWFINDER/FOCUSING SCREEN LOCK-RELEASE BUTTON AND ALLOW FOCUSING SCREEN TO DROP INTO YOUR HAND

INTERCHANGEABLE NIKON VIEWFINDERS

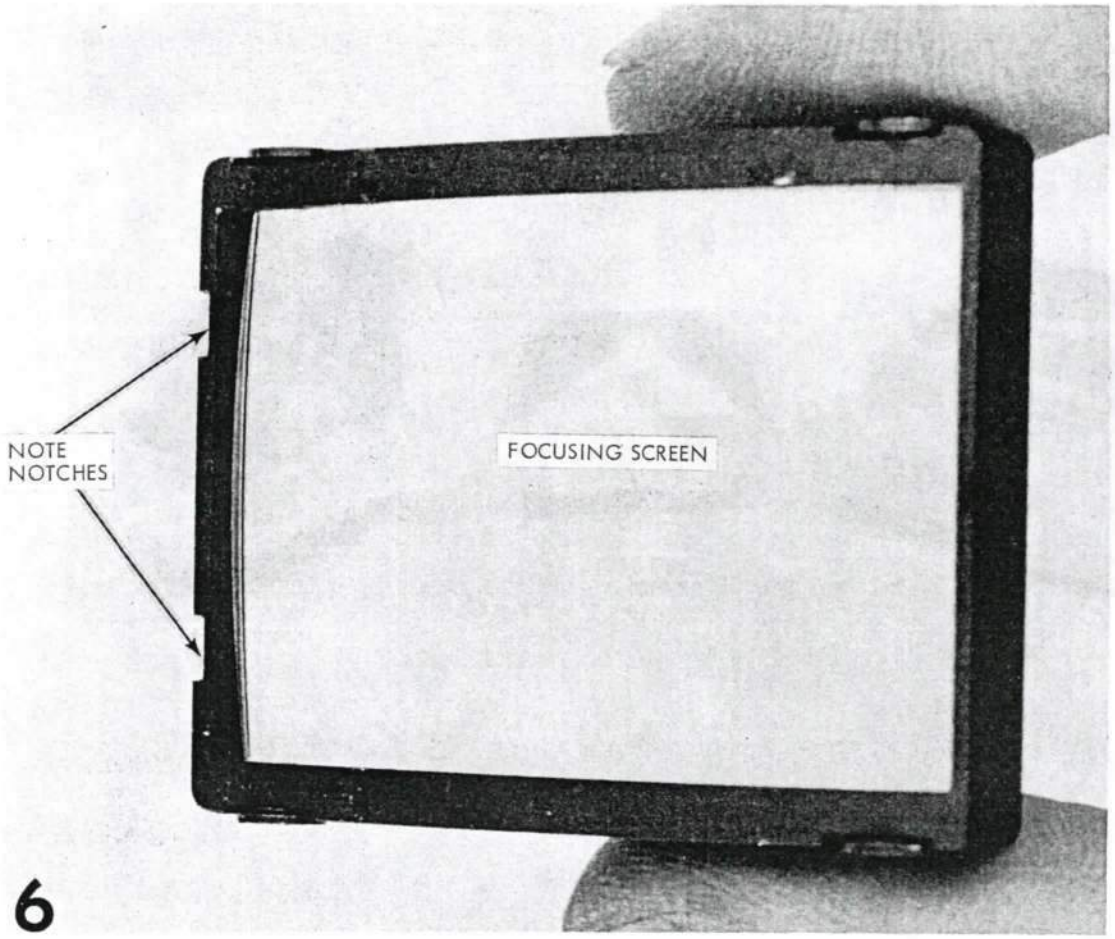


PHOTOMIC FINDER

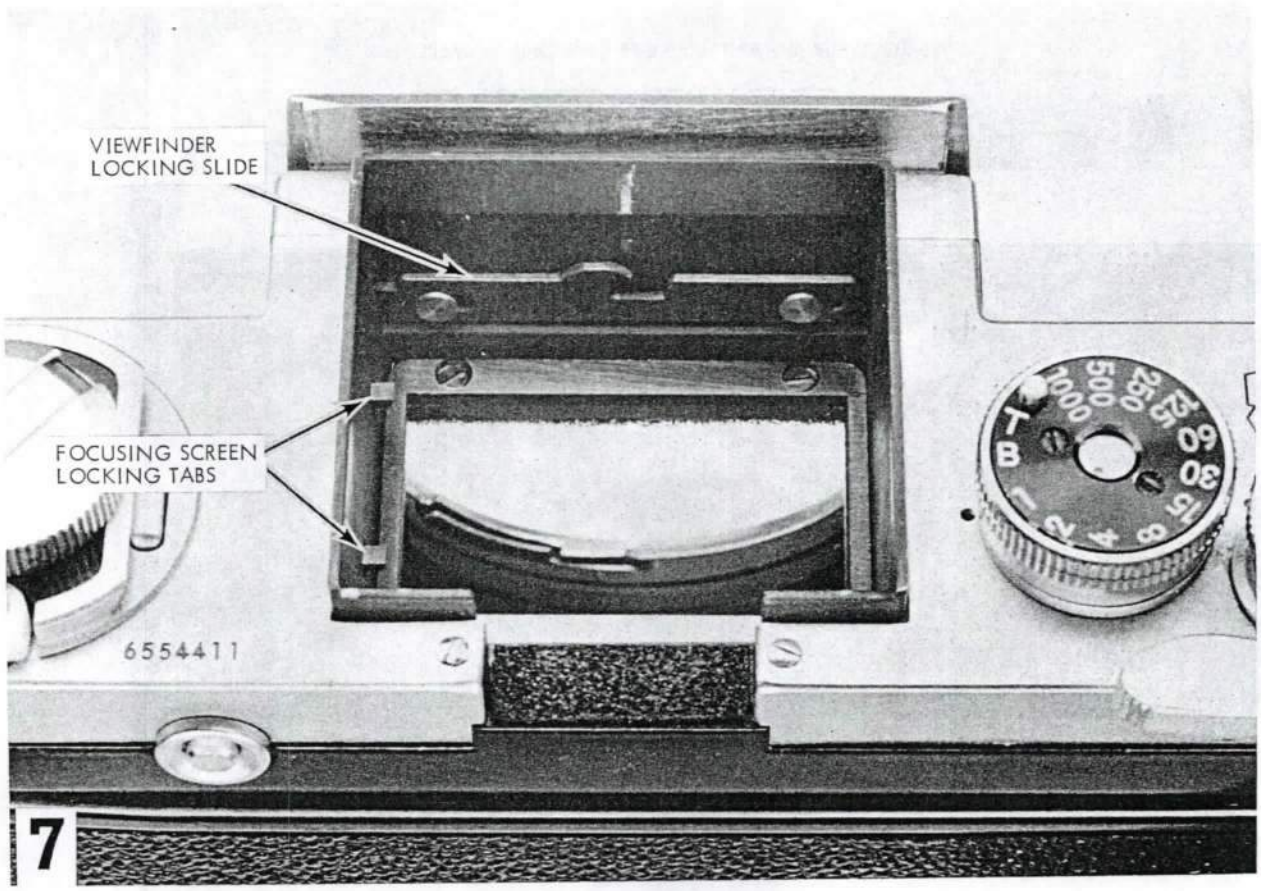
EYE-LEVEL FINDER

WAIST-LEVEL FINDER

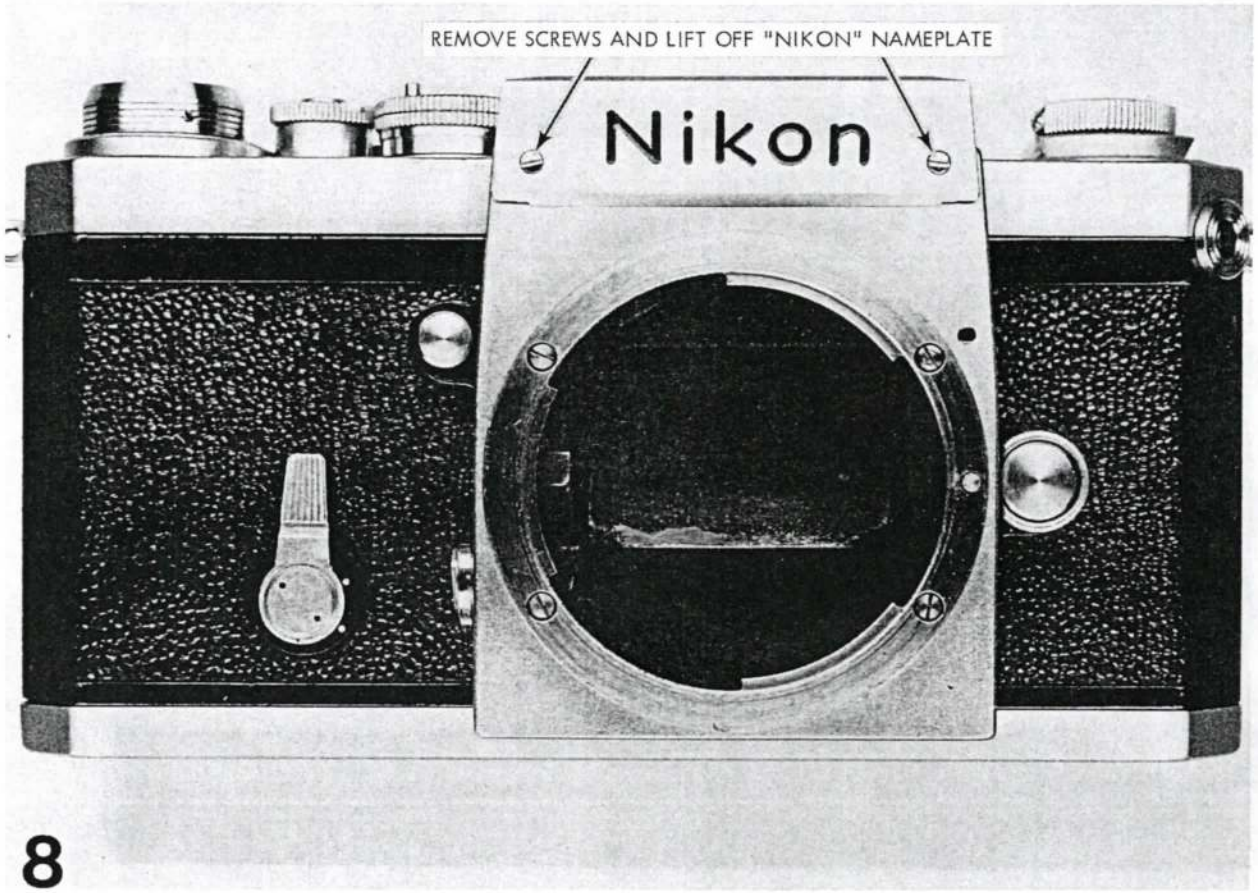
5



6

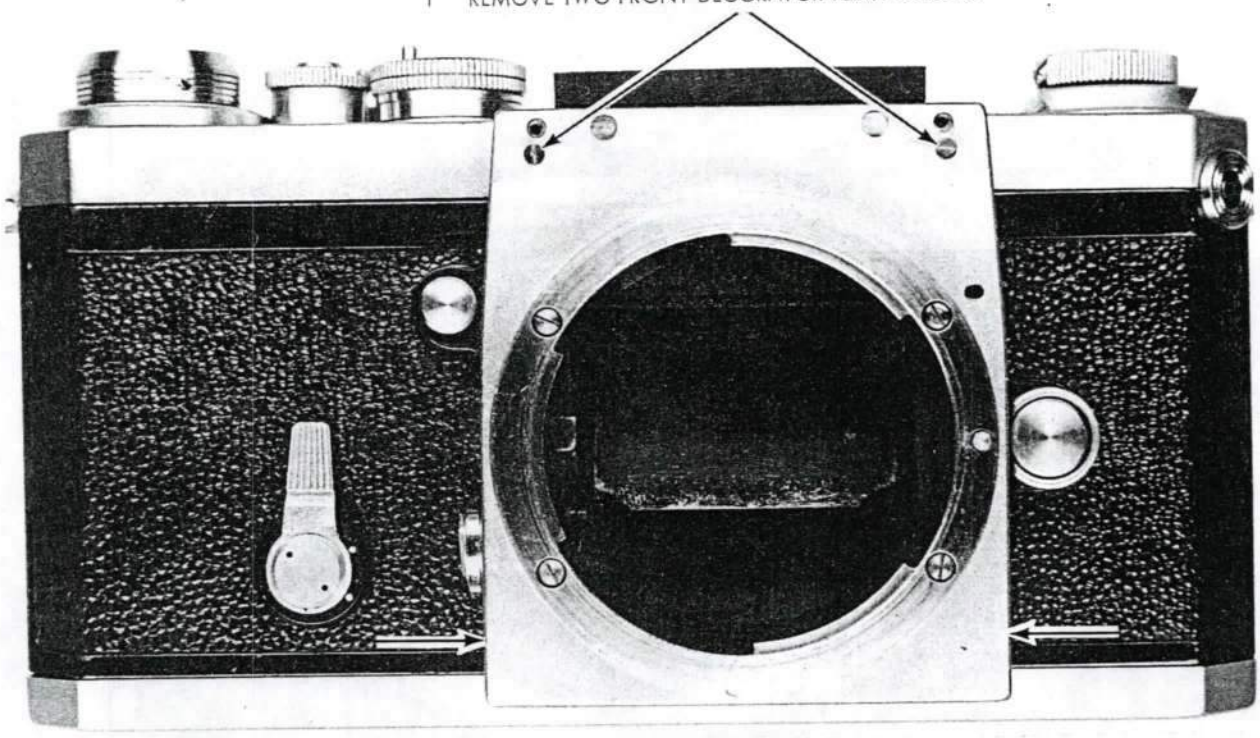

VIEWFINDER
LOCKING SLIDE
FOCUSING SCREEN
LOCKING TABS
6554411

7



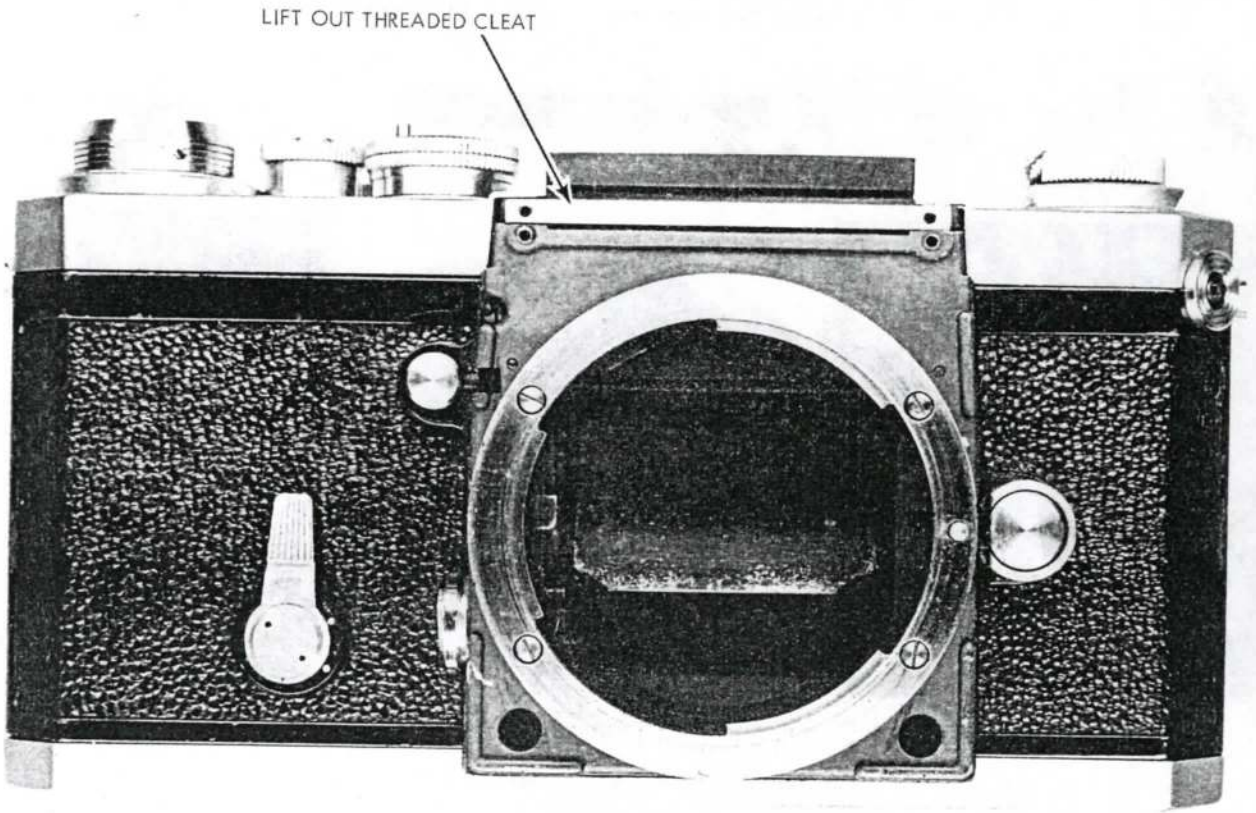
8

1 REMOVE TWO FRONT DECORATOR PLATE SCREWS



2 REMOVE TWO SCREWS AT SIDES OF FRONT DECORATOR PLATE (POSITIONS INDICATED BY ARROWS)

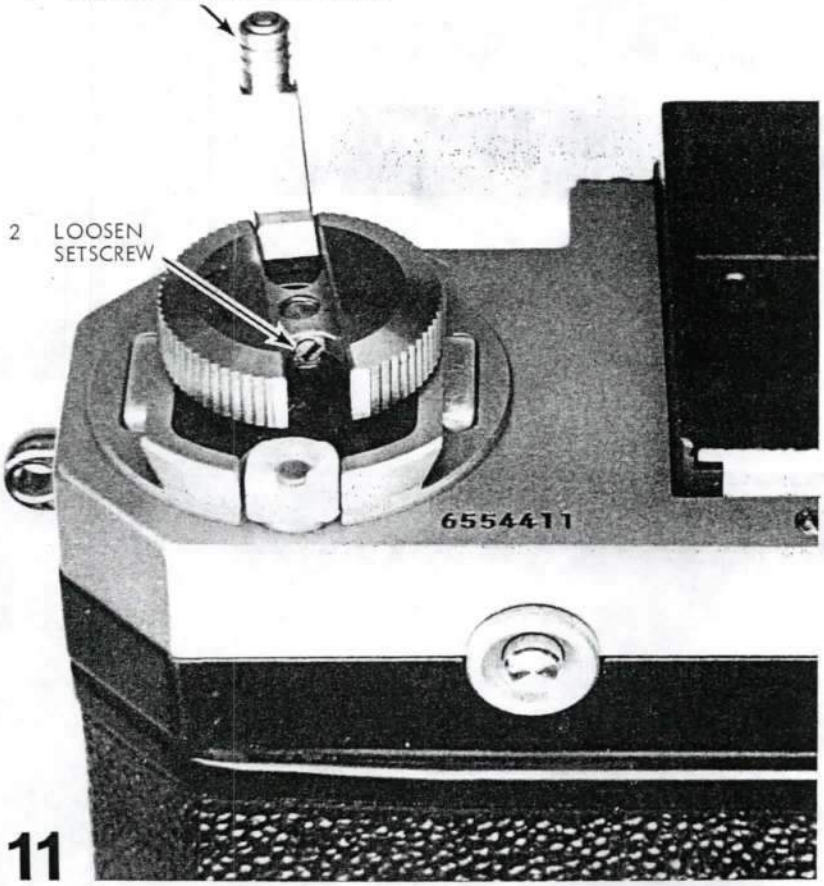
3 LIFT OFF FRONT DECORATOR PLATE

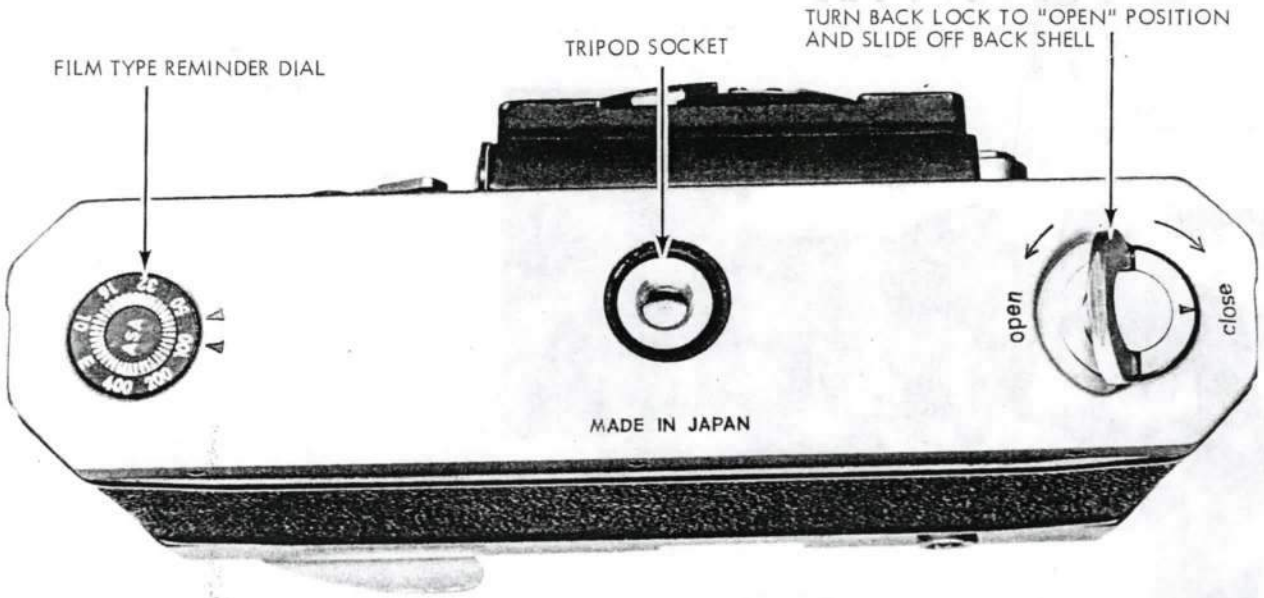


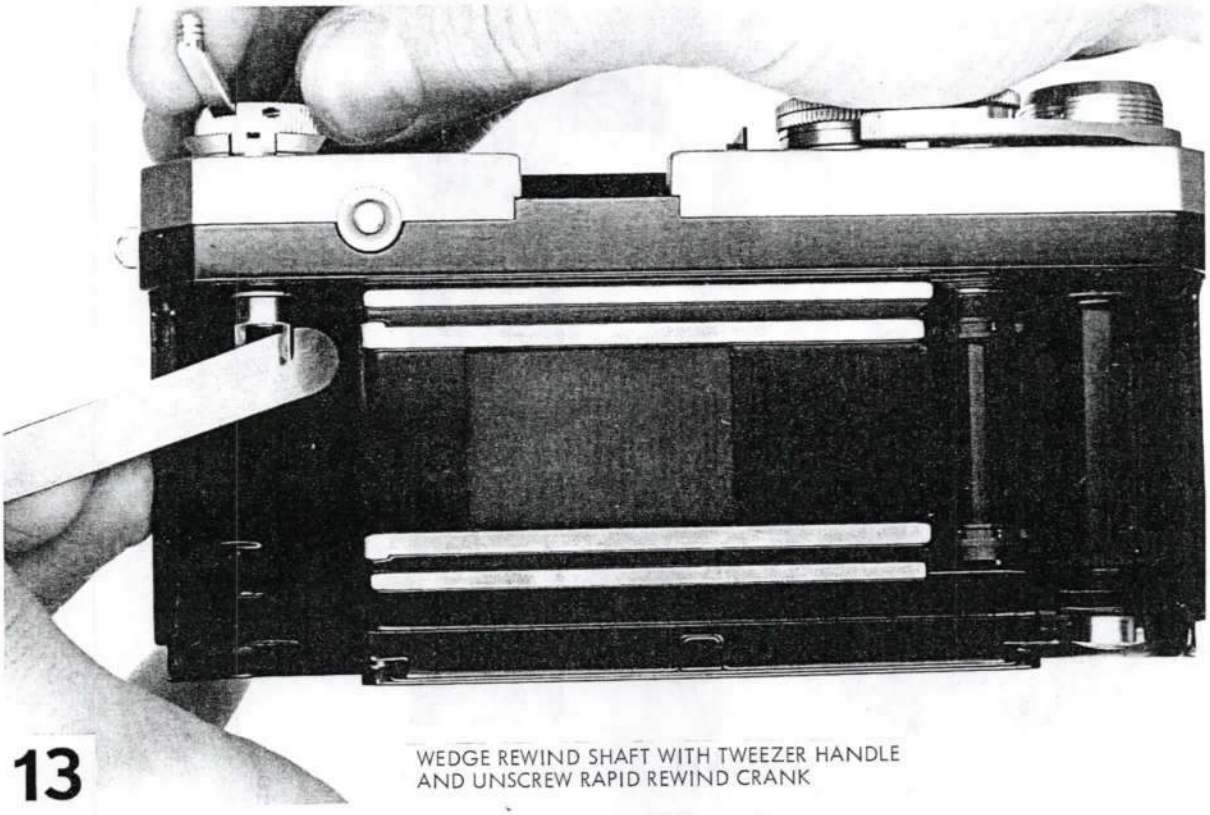
10

1 EXTEND RAPID REWIND CRANK

2 LOOSEN SETSCREW

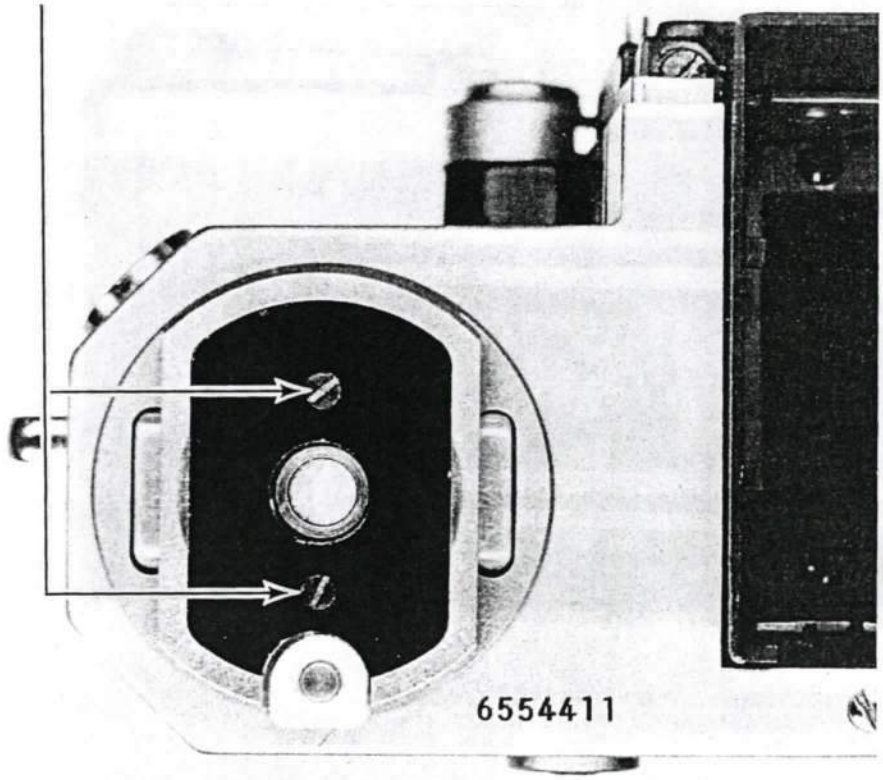



FILM TYPE REMINDER DIAL
TRIPOD SOCKET
TURN BACK LOCK TO "OPEN" POSITION
AND SLIDE OFF BACK SHELL
open
close
MADE IN JAPAN

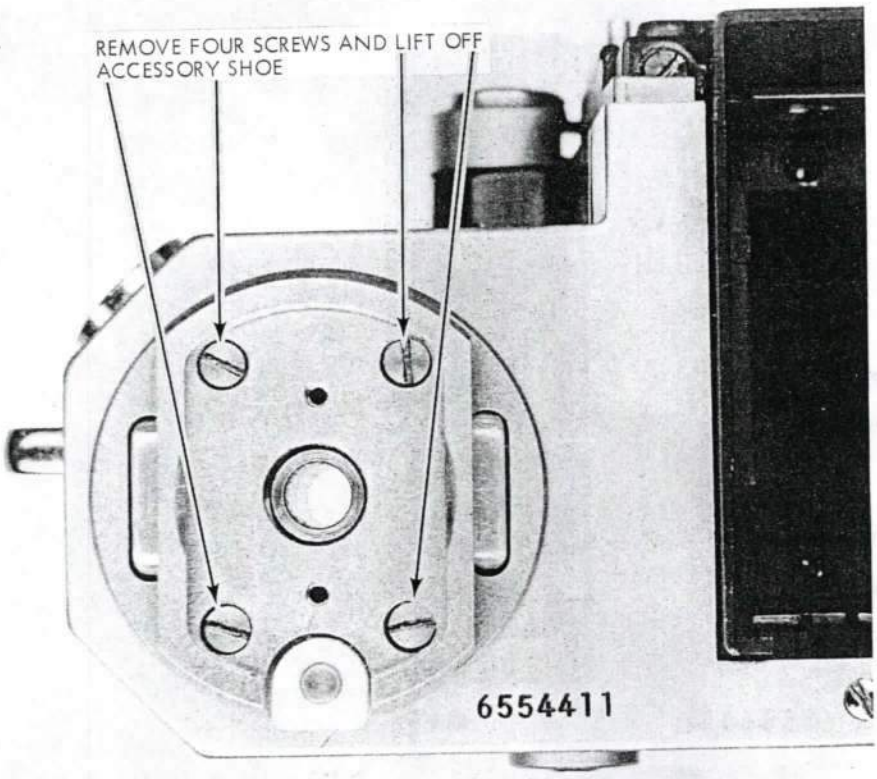


13 WEDGE REWIND SHAFT WITH TWEEZER HANDLE AND UNSCREW RAPID REWIND CRANK

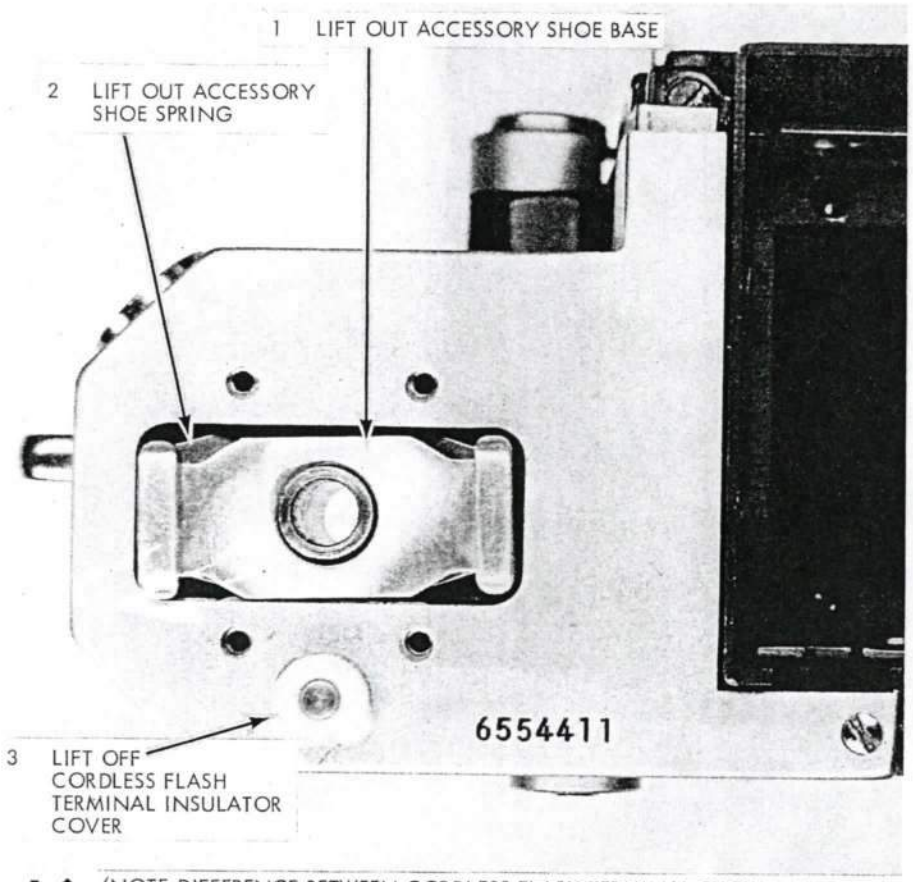
REMOVE SCREWS AND LIFT OFF ACCESSORY SHOE DECORATOR PLATE



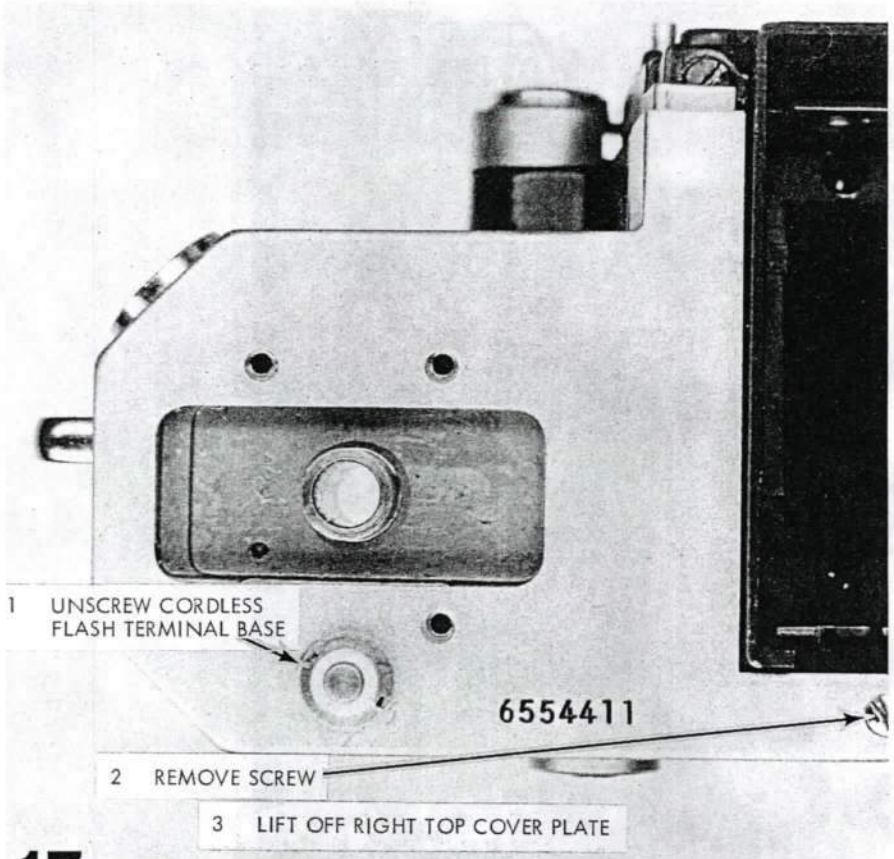
14



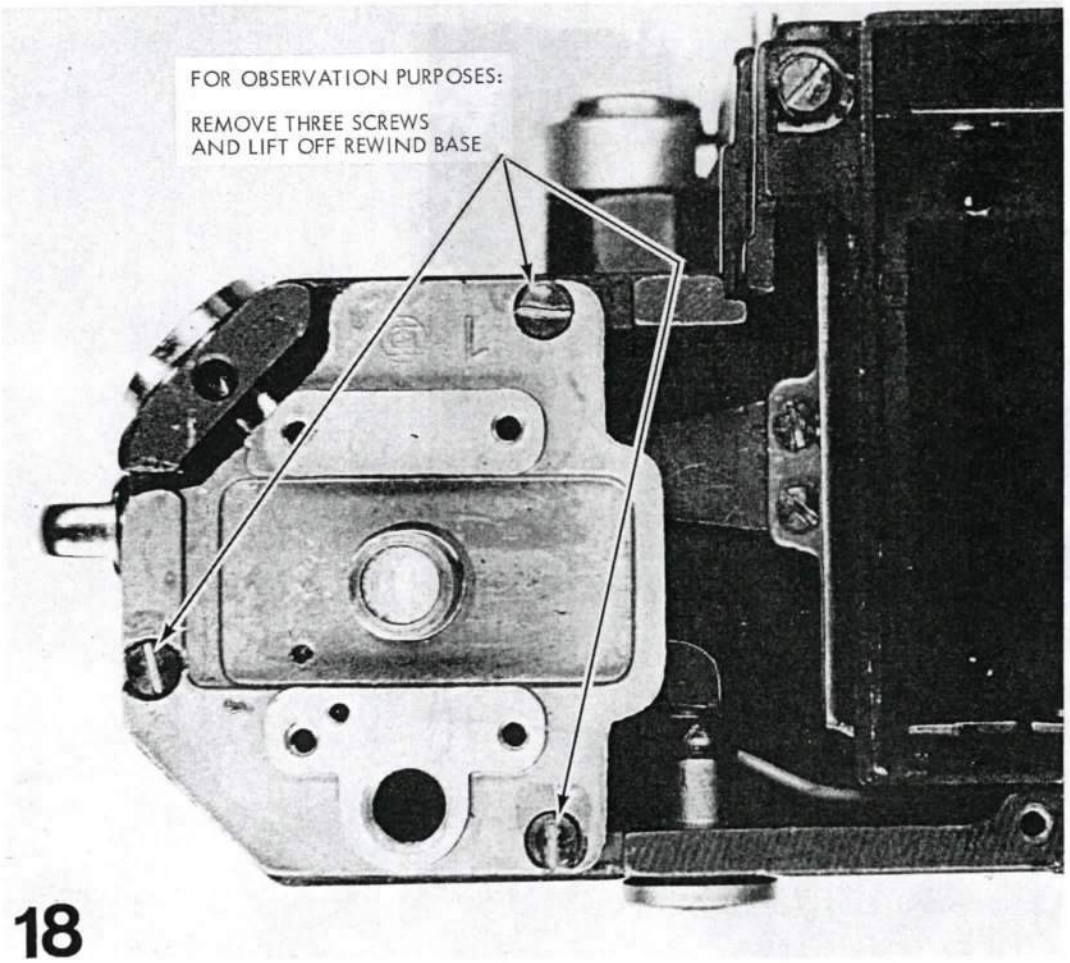
15


1 LIFT OUT ACCESSORY SHOE BASE
2 LIFT OUT ACCESSORY SHOE SPRING
3 LIFT OFF CORDLESS FLASH TERMINAL INSULATOR COVER
6554411

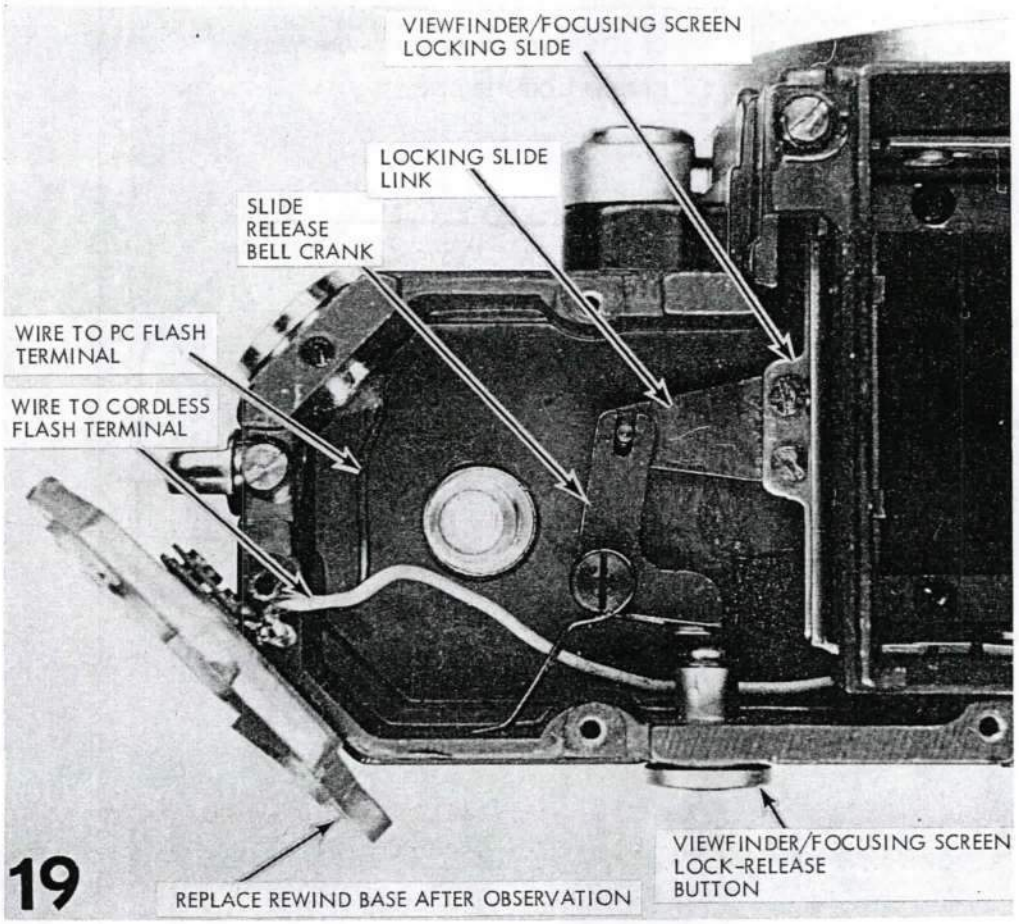
16 (NOTE DIFFERENCE BETWEEN CORDLESS FLASH TERMINAL SHOWN HERE AND THE ONE SHOWN IN FIGURE 2 – SIMPLY UNSCREW THE TYPE SHOWN IN FIGURE 2)

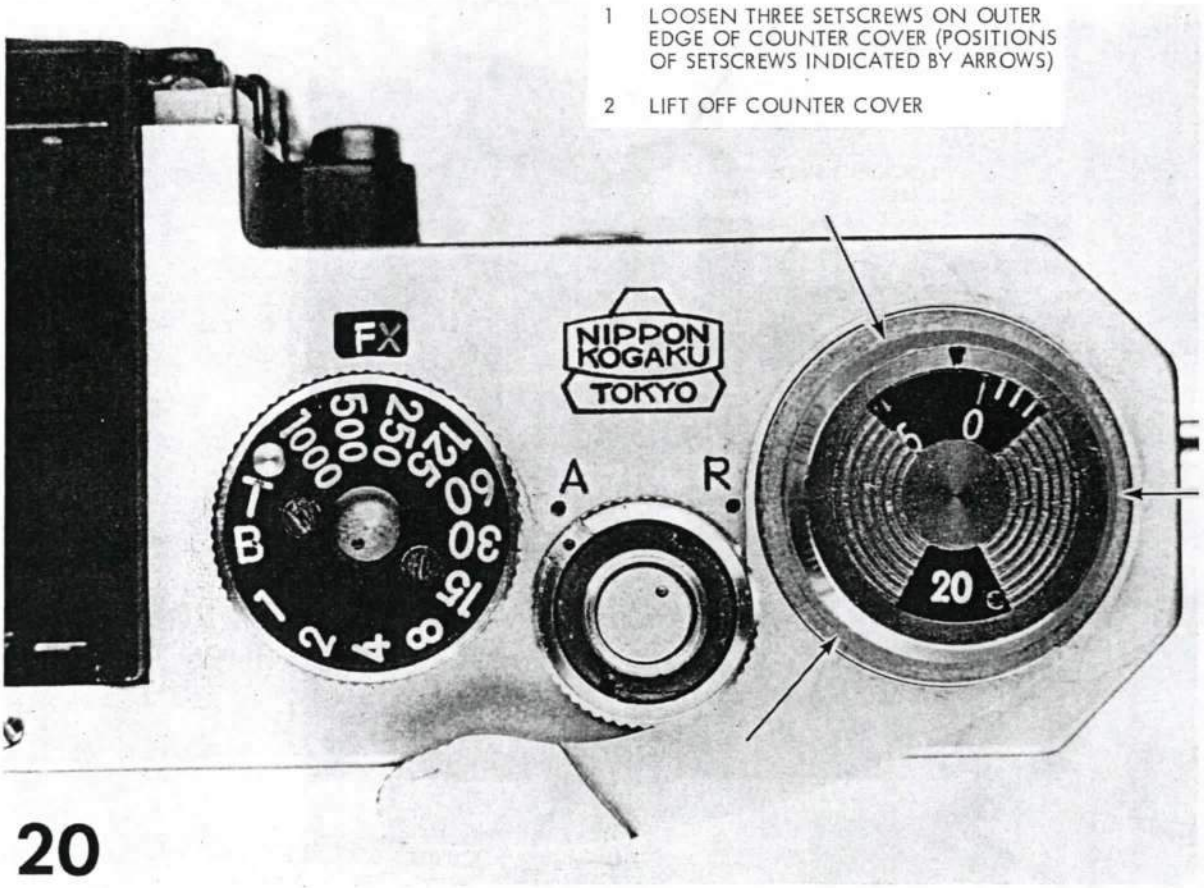

1 UNSCREW CORDLESS FLASH TERMINAL BASE
6554411
2 REMOVE SCREW
3 LIFT OFF RIGHT TOP COVER PLATE

17


FOR OBSERVATION PURPOSES:
REMOVE THREE SCREWS
AND LIFT OFF REWIND BASE

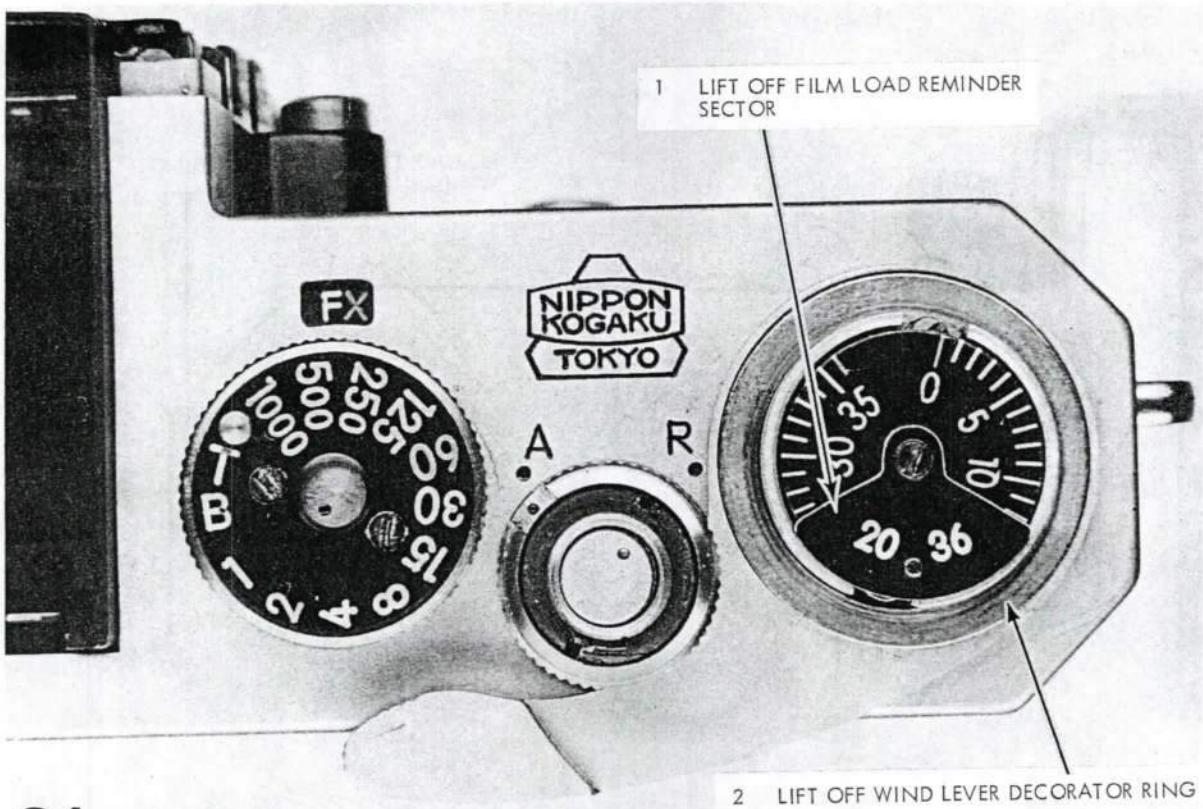
18

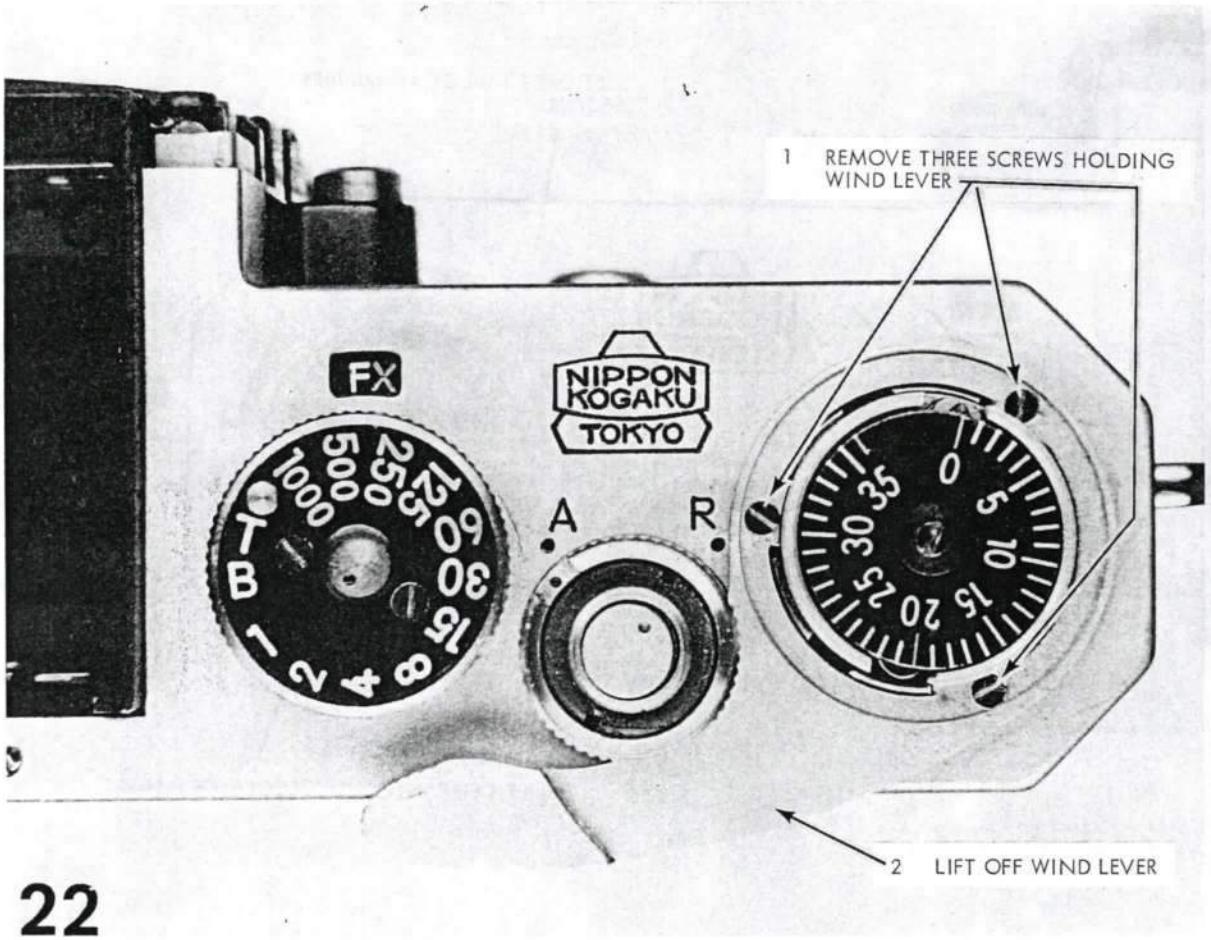

VIEWFINDER/FOCUSING SCREEN
LOCKING SLIDE
LOCKING SLIDE
LINK
SLIDE
RELEASE
BELL CRANK
WIRE TO PC FLASH
TERMINAL
WIRE TO CORDLESS
FLASH TERMINAL
VIEWFINDER/FOCUSING SCREEN
LOCK-RELEASE
BUTTON
19
REPLACE REWIND BASE AFTER OBSERVATION

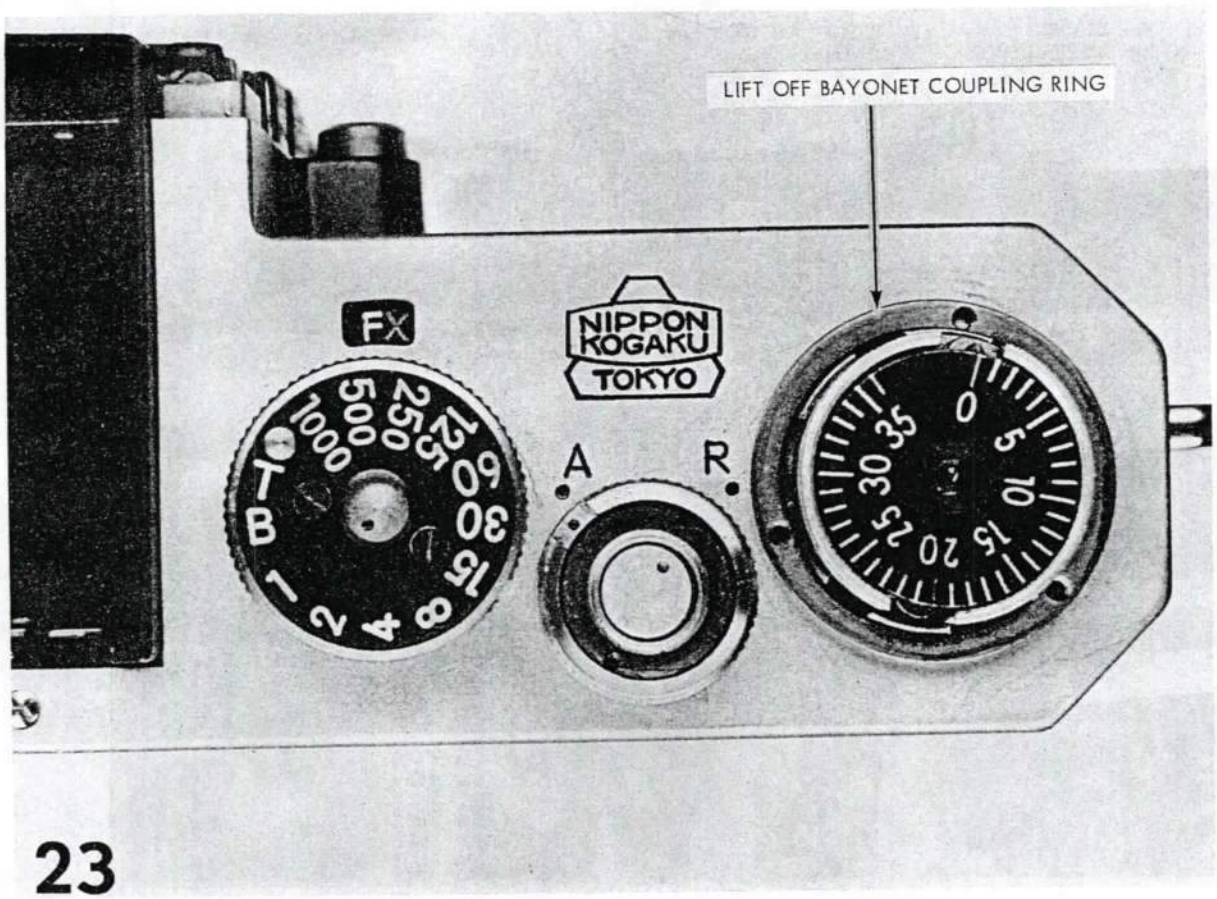


1 LOOSEN THREE SETSCREWS ON OUTER EDGE OF COUNTER COVER (POSITIONS OF SETSCREWS INDICATED BY ARROWS)

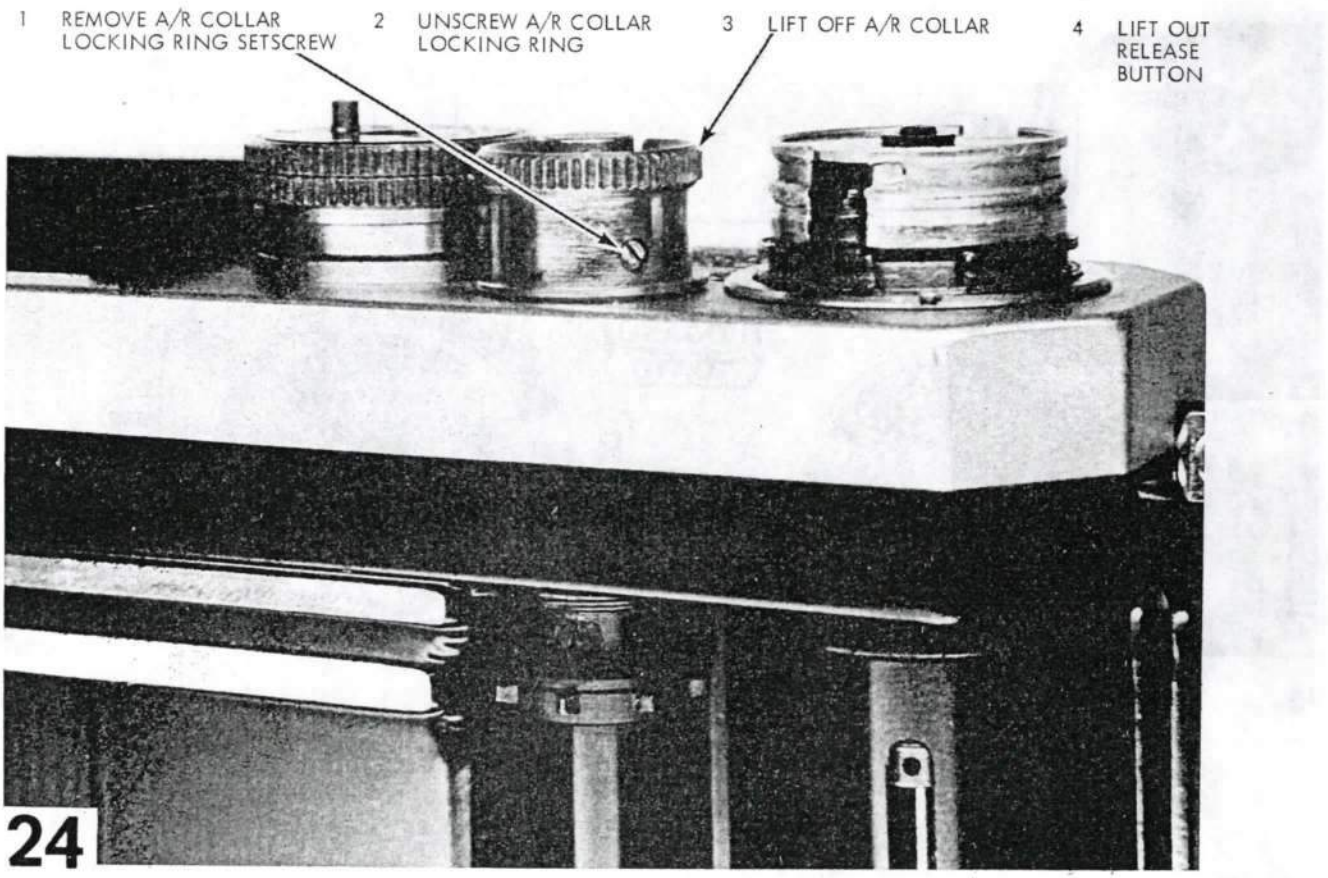
2 LIFT OFF COUNTER COVER

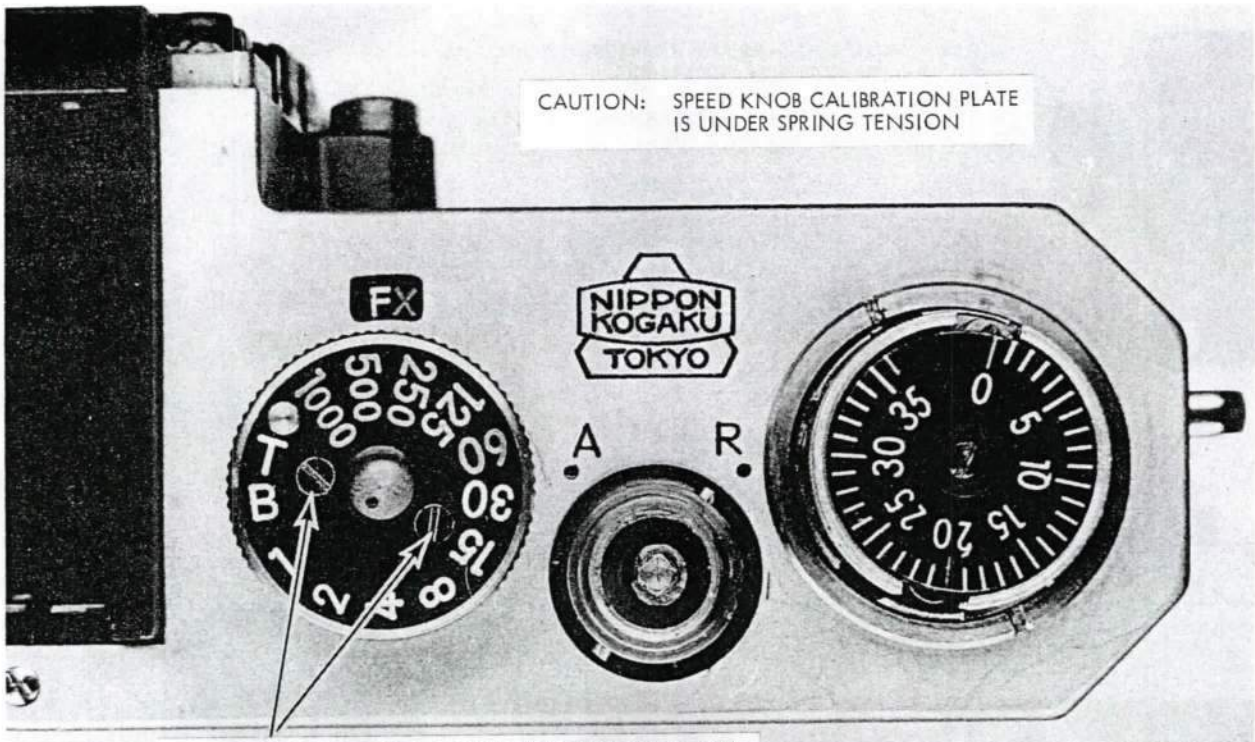

1 LIFT OFF FILM LOAD REMINDER SECTOR
FX
NIPPON KOGAKU TOKYO
A
R
T
B
1000
500
250
125
60
30
15
8
4
2
1
35
0
5
10
20
36
2 LIFT OFF WIND LEVER DECORATOR RING


1 REMOVE THREE SCREWS HOLDING WIND LEVER
FX
NIPPON KOGAKU TOKYO
A
R
T
B
1000
500
250
125
60
30
15
8
4
2
1
0
5
10
15
20
25
30
35
2 LIFT OFF WIND LEVER


LIFT OFF BAYONET COUPLING RING
FX
NIPPON
KOGAKU
TOKYO
A
R
T
B
1000
500
250
125
60
30
15
8
4
2
1
0
5
10
15
20
25
30
35

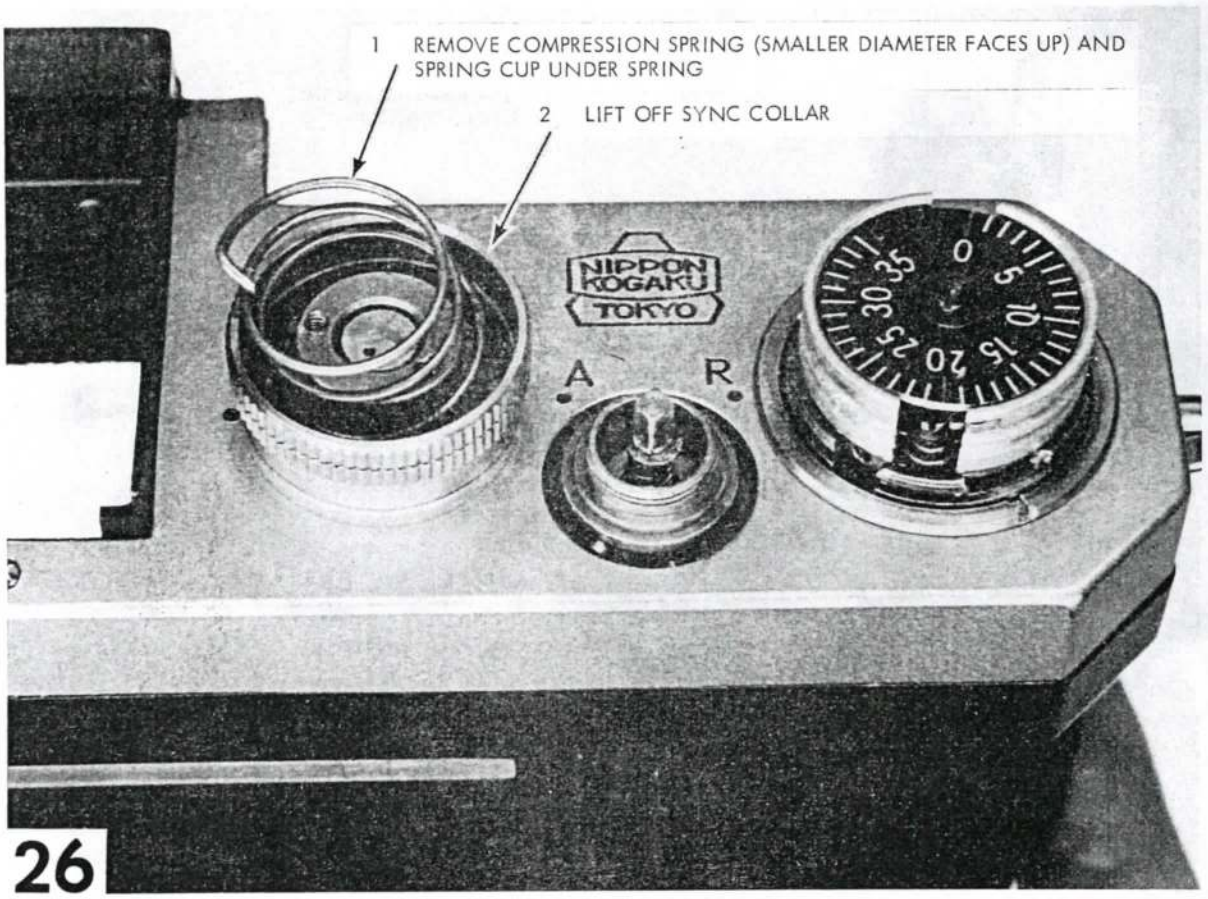
23

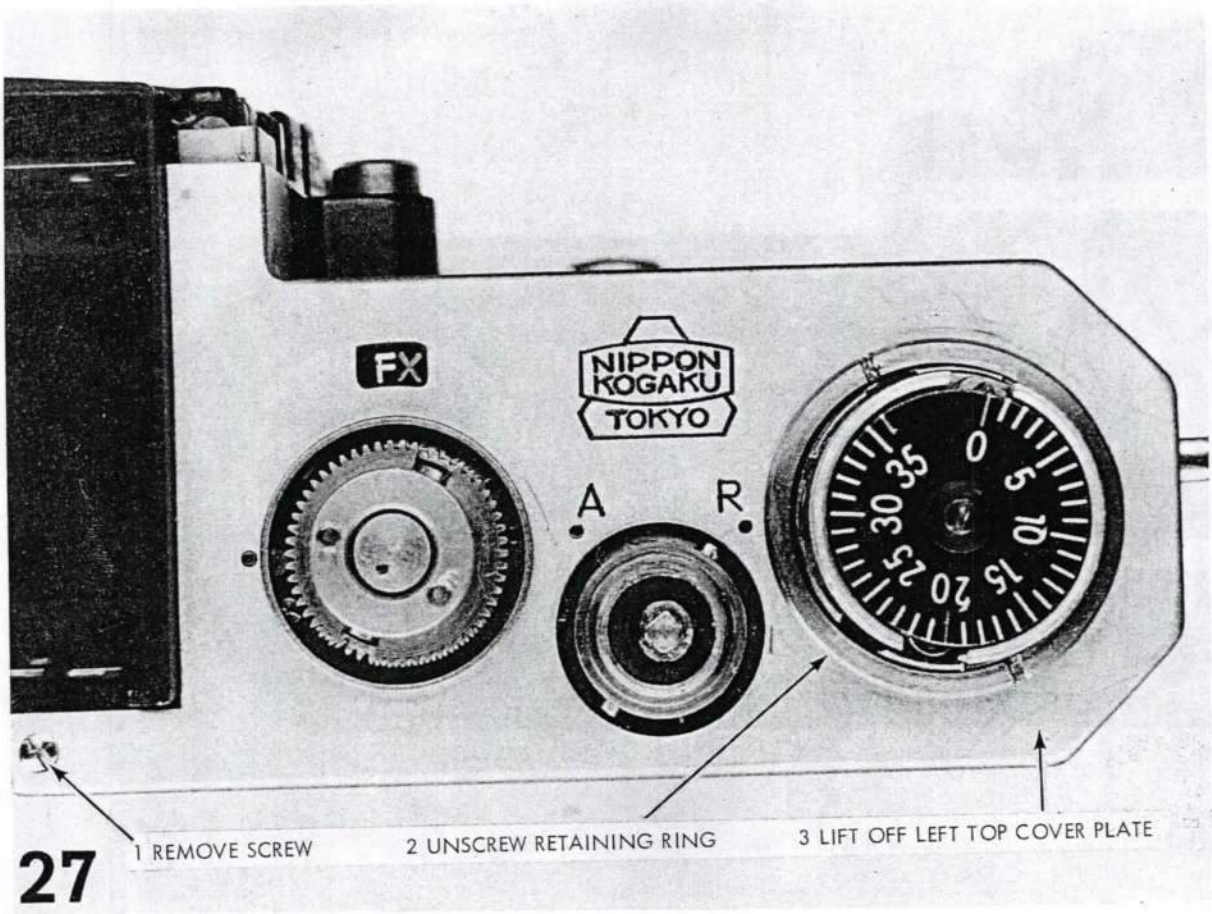

1 REMOVE A/R COLLAR LOCKING RING SETSCREW
2 UNSCREW A/R COLLAR LOCKING RING
3 LIFT OFF A/R COLLAR
4 LIFT OUT RELEASE BUTTON
24



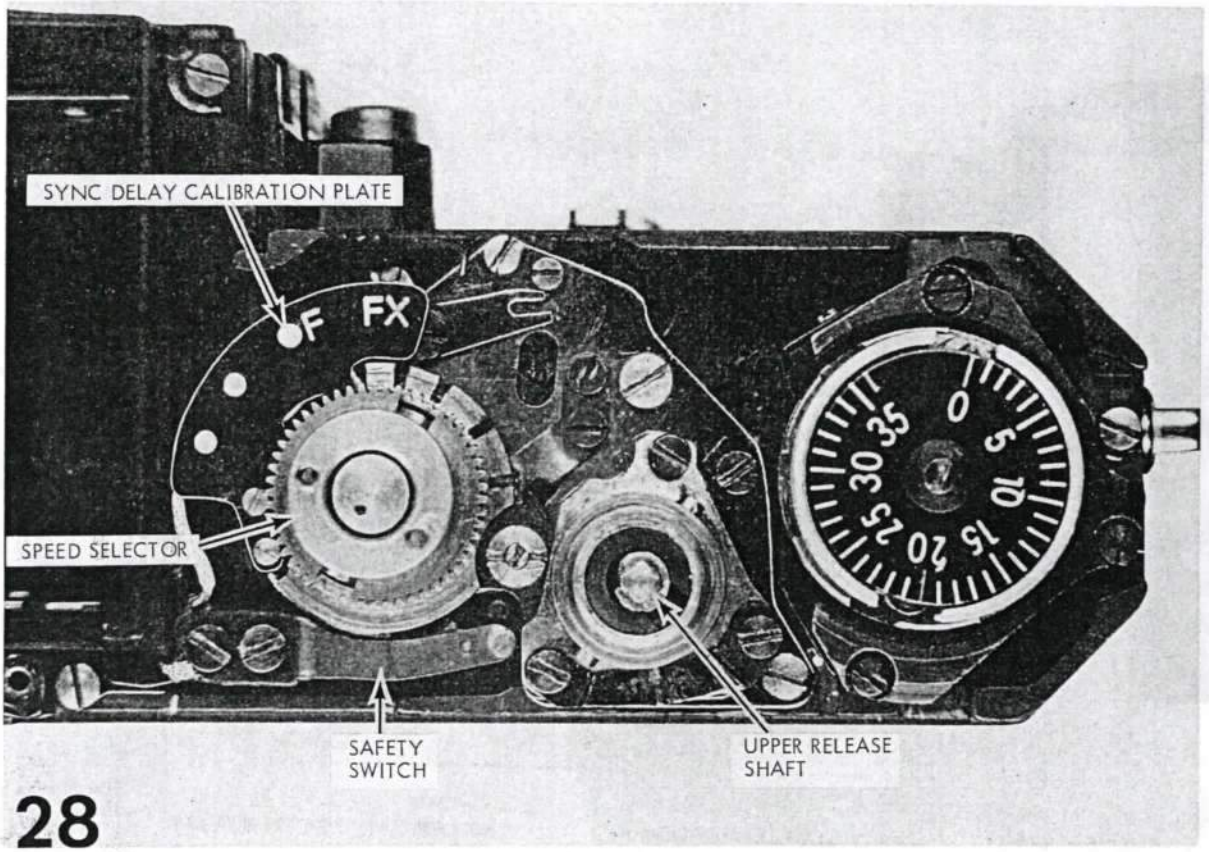
1 REMOVE SPEED KNOB CALIBRATION PLATE SCREWS

2 LIFT OFF SPEED KNOB CALIBRATION PLATE

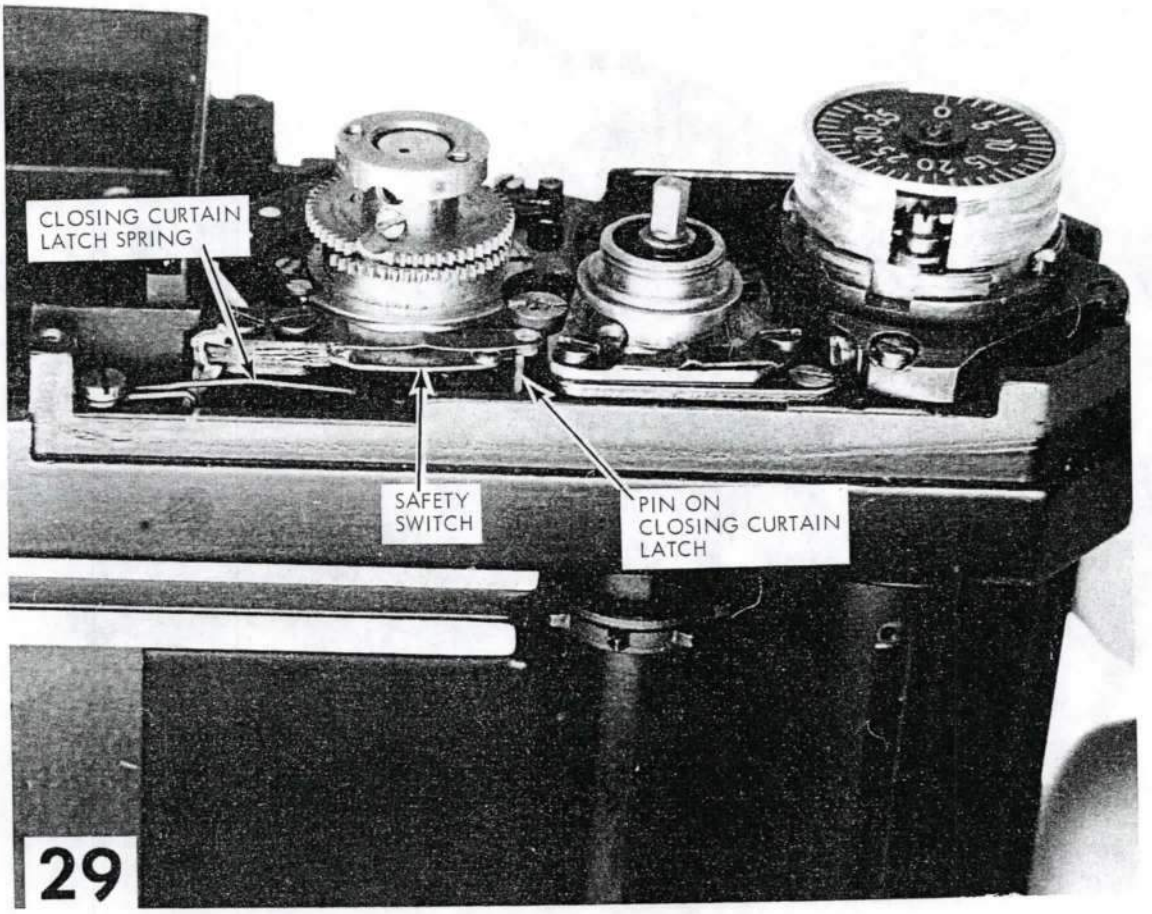

1 REMOVE COMPRESSION SPRING (SMALLER DIAMETER FACES UP) AND SPRING CUP UNDER SPRING
2 LIFT OFF SYNC COLLAR
NIPPON KOGAKU TOKYO
A
R
0
5
10
15
20
25
30
35

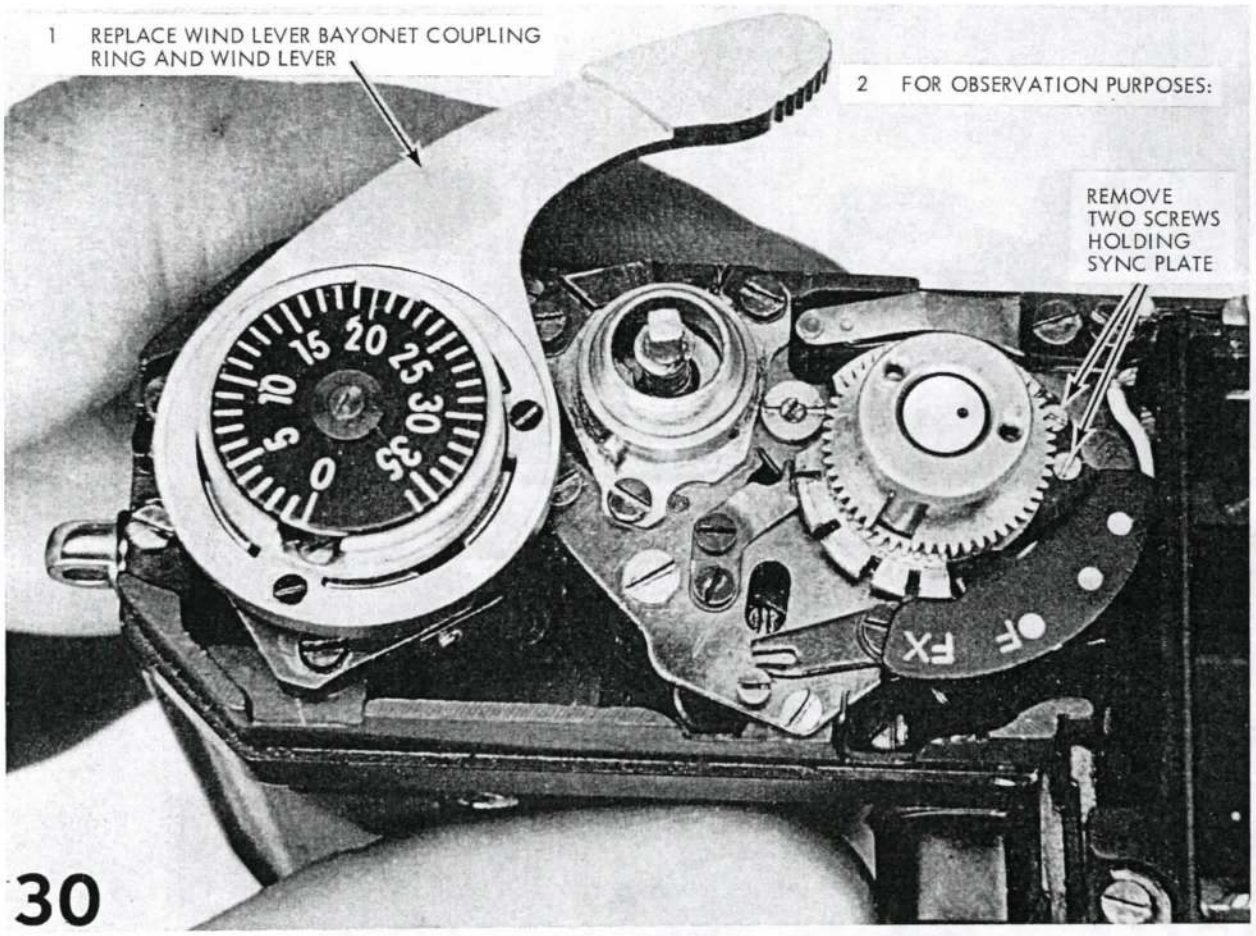

FX
NIPPON
KOGAKU
TOKYO
A
R
0
5
10
15
20
25
30
35
1 REMOVE SCREW
2 UNSCREW RETAINING RING
3 LIFT OFF LEFT TOP COVER PLATE

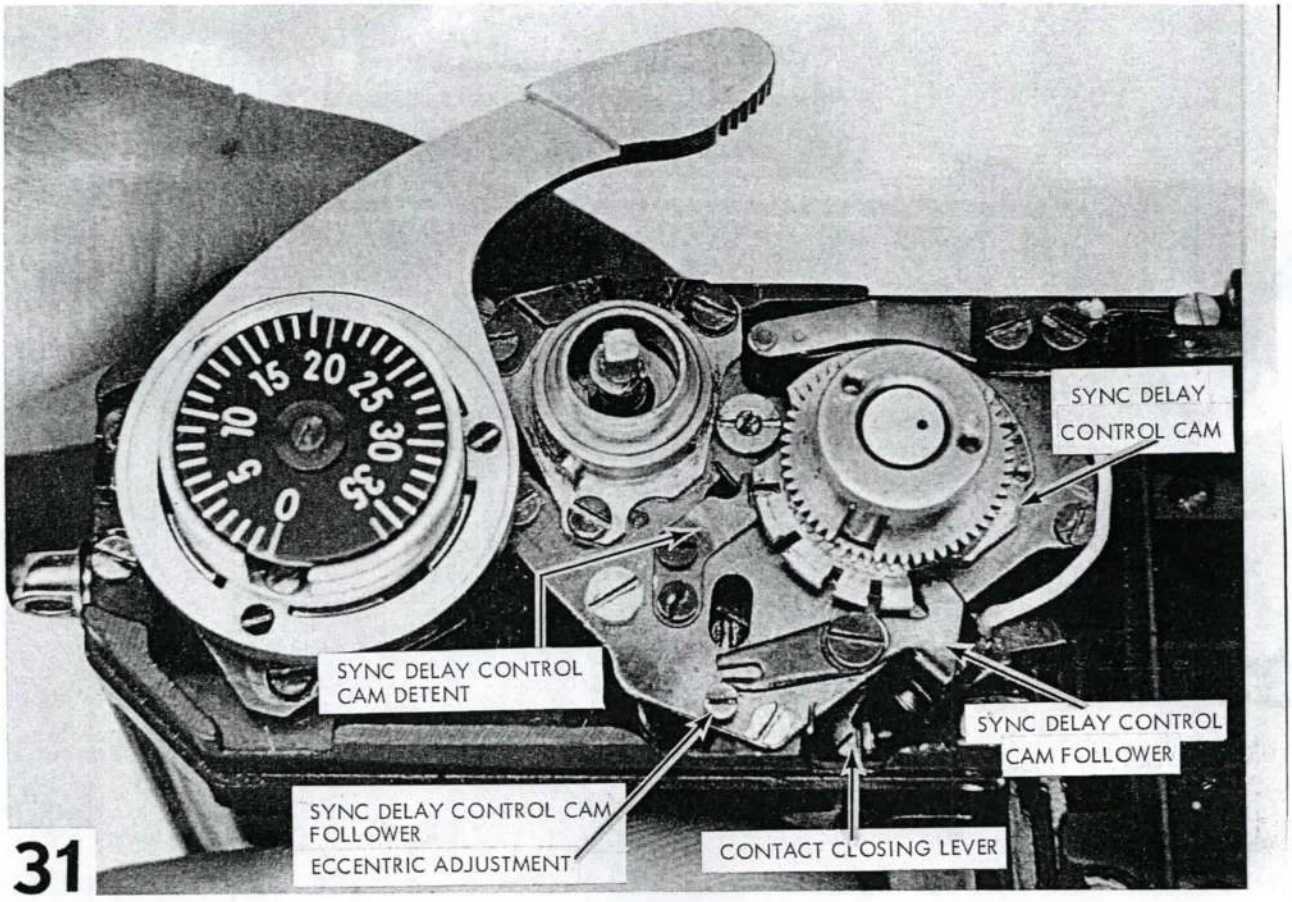
27


SYNC DELAY CALIBRATION PLATE
F
FX
SPEED SELECTOR
SAFETY SWITCH
UPPER RELEASE SHAFT
0
5
10
15
20
25
30
35

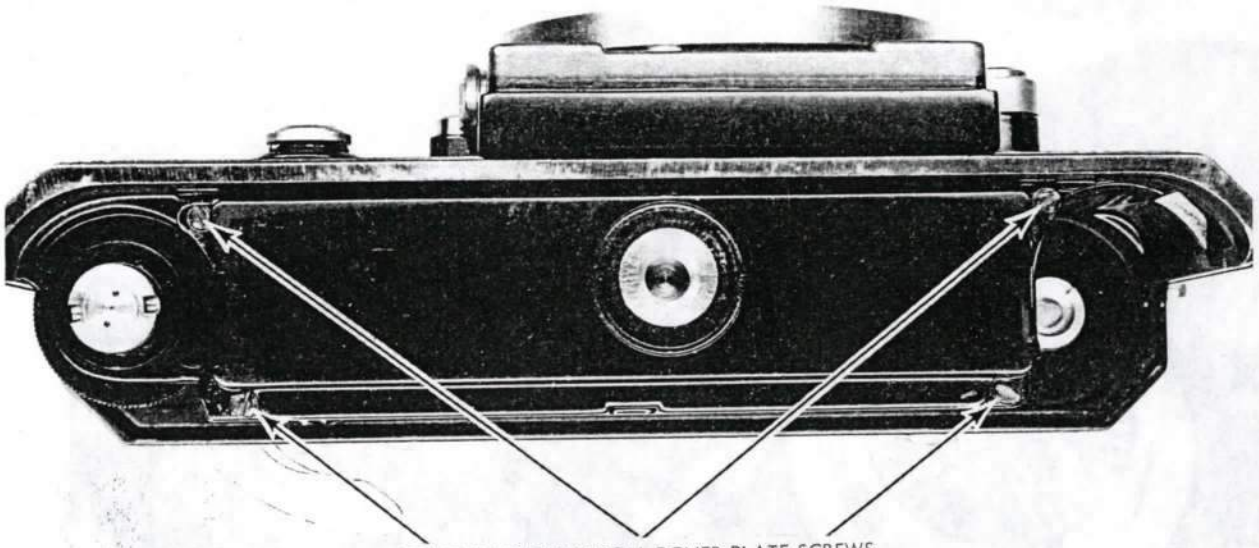
28


CLOSING CURTAIN LATCH SPRING
SAFETY SWITCH
PIN ON CLOSING CURTAIN LATCH
29


1 REPLACE WIND LEVER BAYONET COUPLING RING AND WIND LEVER
2 FOR OBSERVATION PURPOSES:
REMOVE TWO SCREWS HOLDING SYNC PLATE
0 5 10 15 20 25 30 35
F FX
30

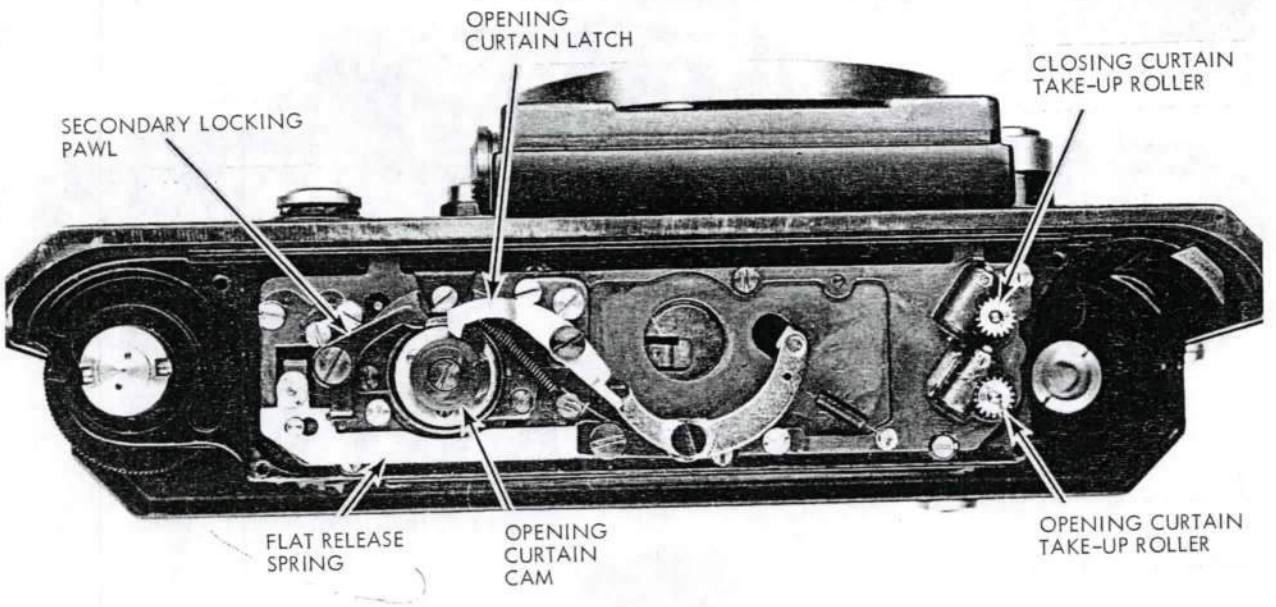

SYNC DELAY
CONTROL CAM
SYNC DELAY CONTROL
CAM DETENT
SYNC DELAY CONTROL
CAM FOLLOWER
SYNC DELAY CONTROL CAM
FOLLOWER
ECCENTRIC ADJUSTMENT
CONTACT CLOSING LEVER

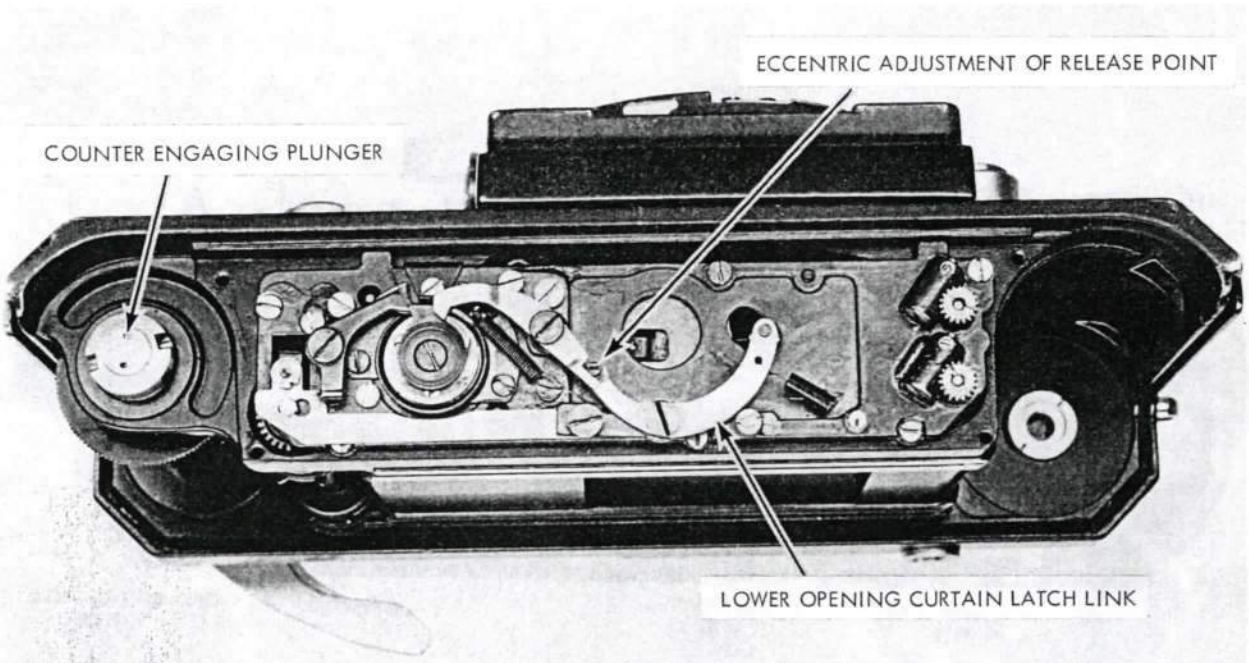
31



REMOVE FOUR BOTTOM COVER PLATE SCREWS
AND LIFT OFF BOTTOM COVER PLATE

32

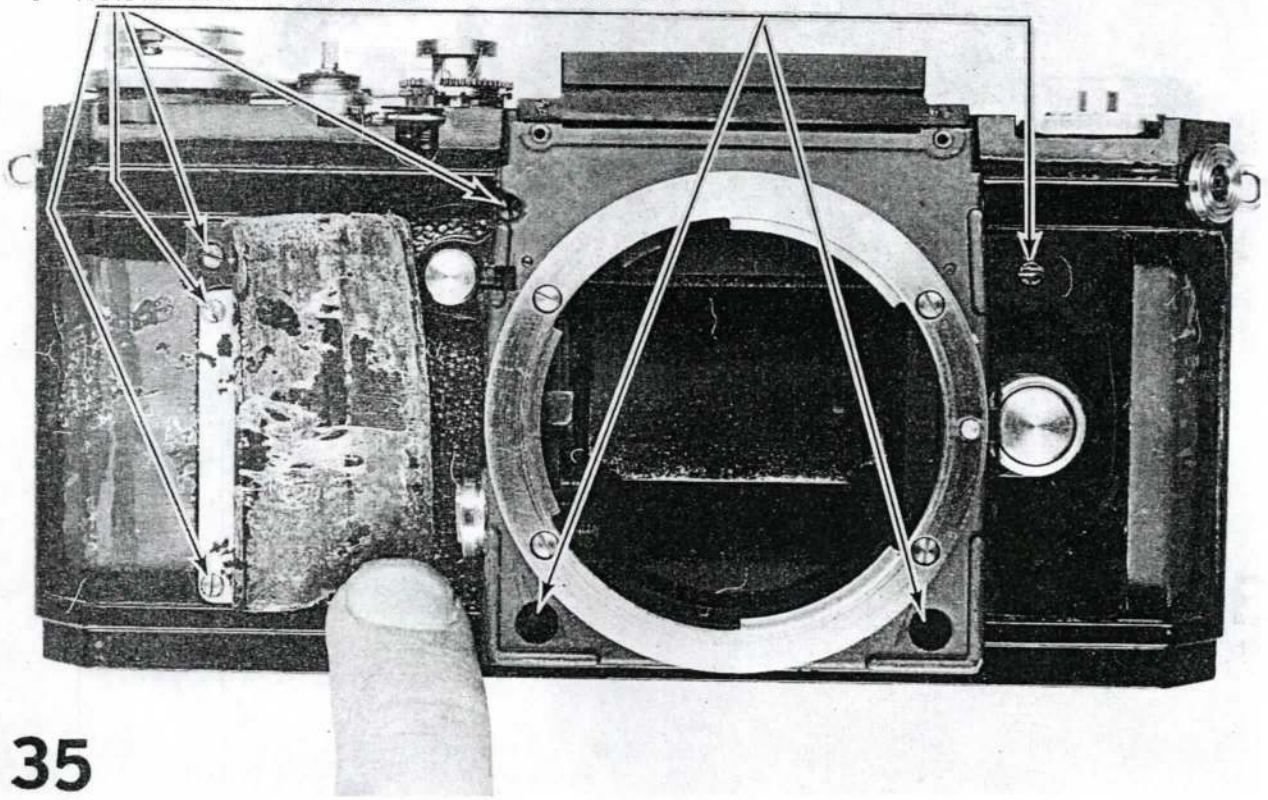

OPENING
CURTAIN LATCH
CLOSING CURTAIN
TAKE-UP ROLLER
SECONDARY LOCKING
PAWL
FLAT RELEASE
SPRING
OPENING
CURTAIN
CAM
OPENING CURTAIN
TAKE-UP ROLLER



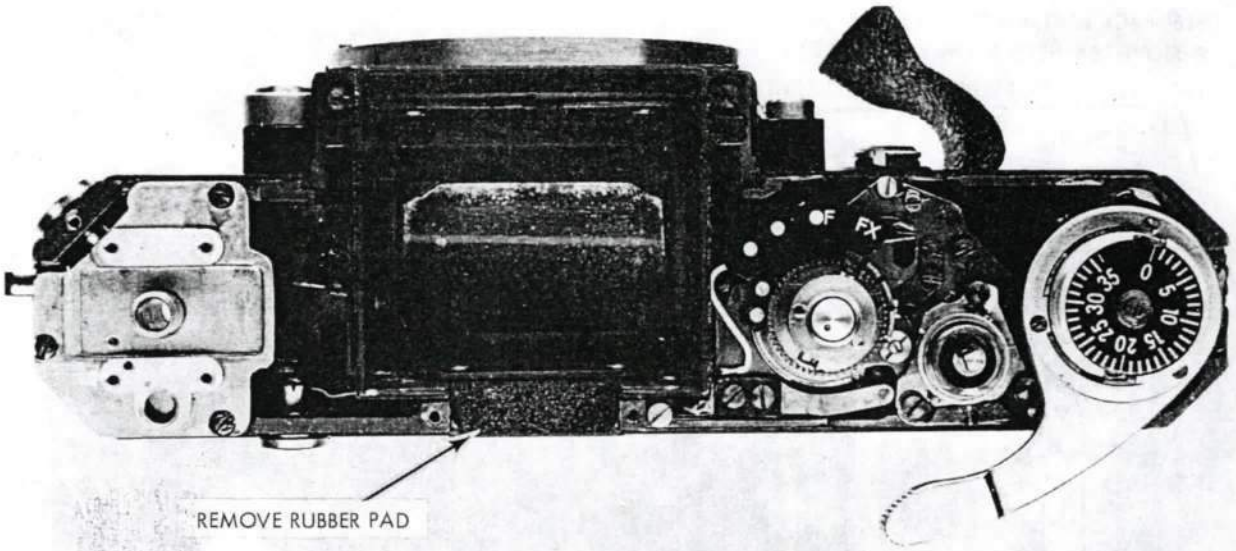
34

SHUTTER COCKED

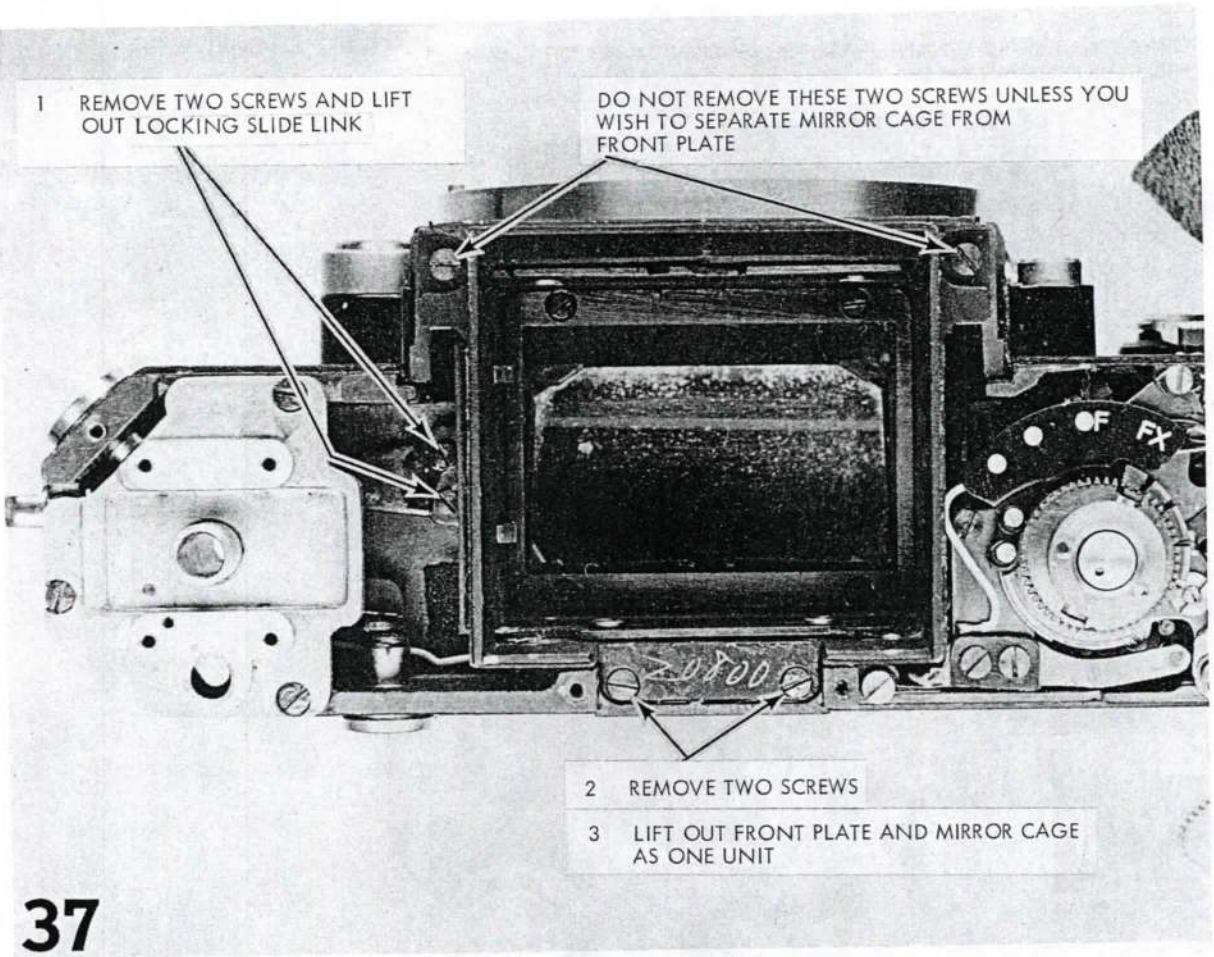
1 PEEL BACK LEATHERETTE ON LEFT SIDE
2 REMOVE LEATHERETTE ON RIGHT SIDE
3 NOTE RESPECTIVE POSITIONS OF INDICATED SCREWS DURING REMOVAL



35

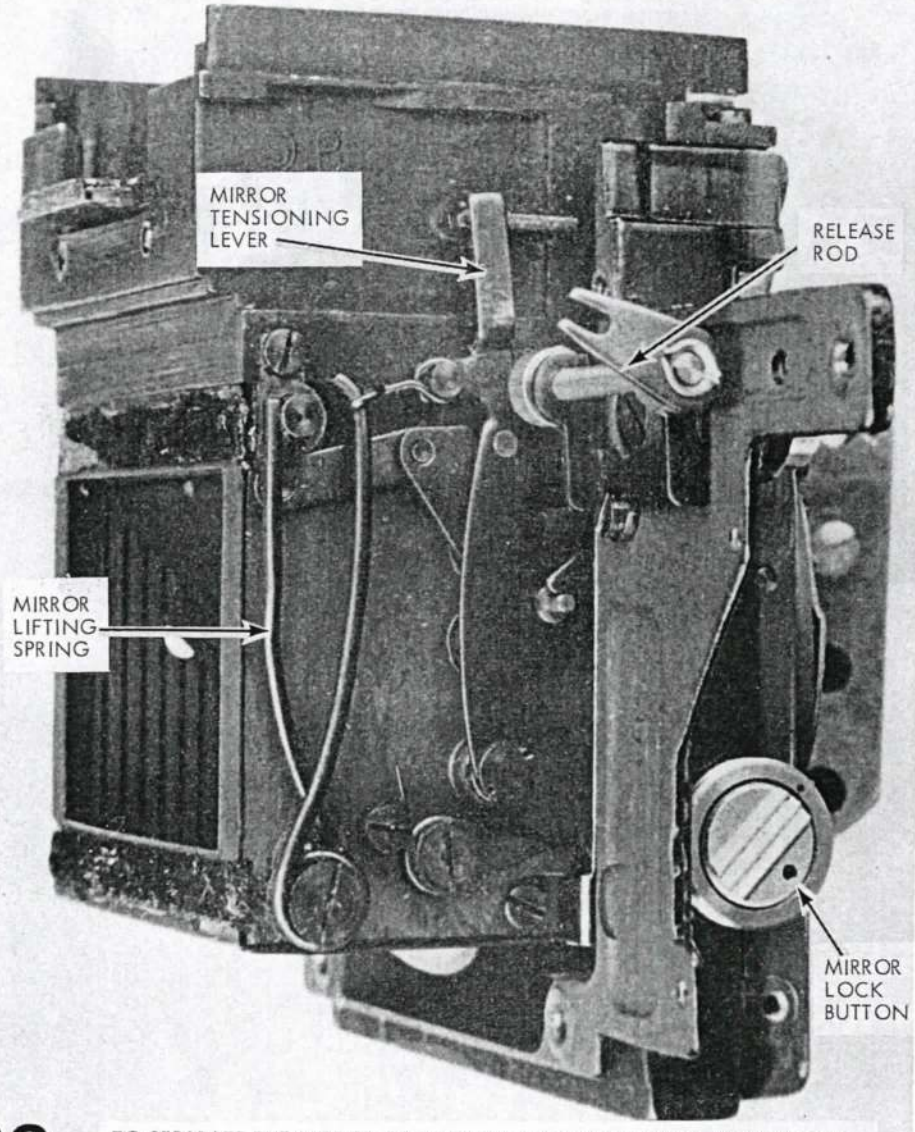


36

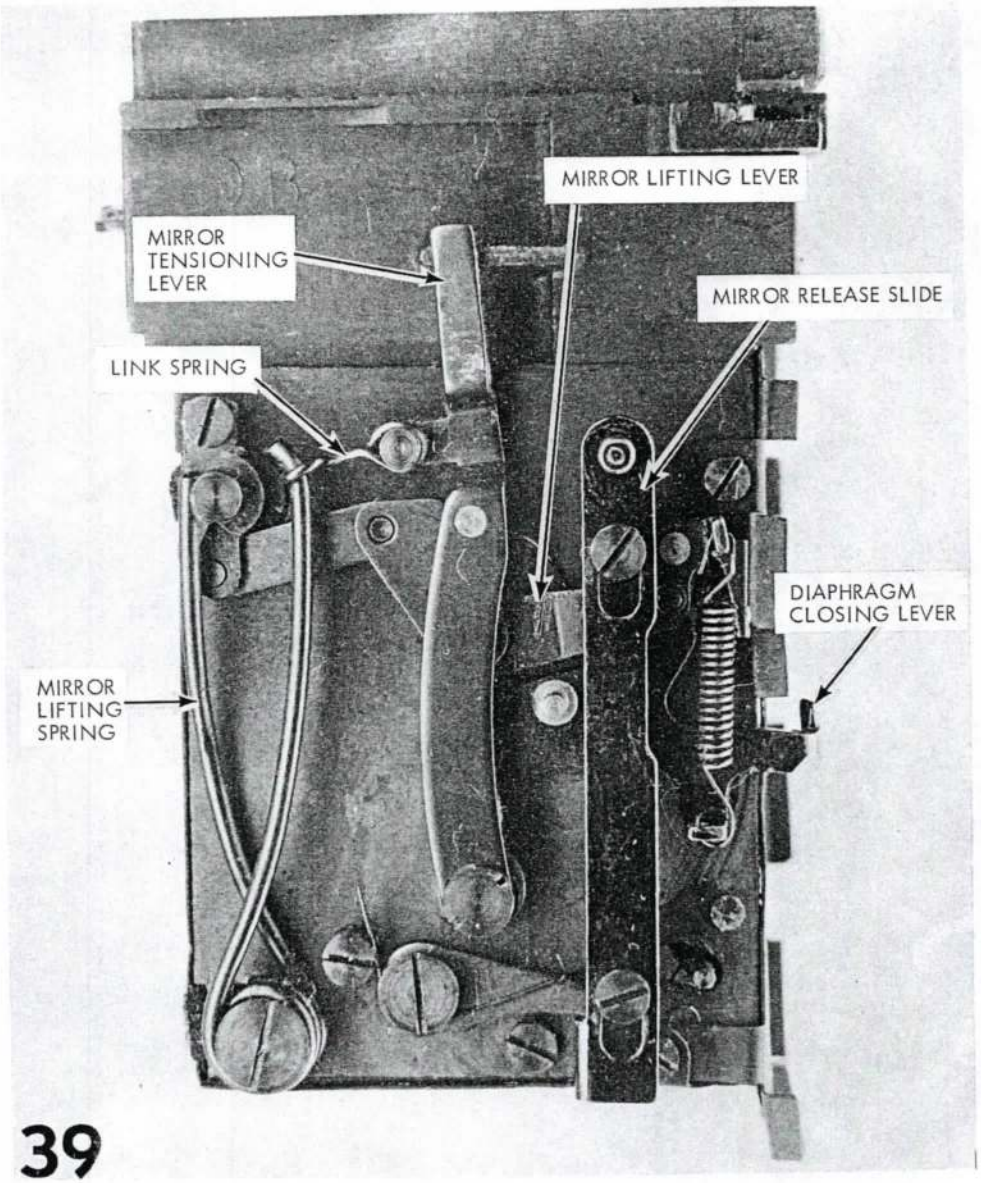

1 REMOVE TWO SCREWS AND LIFT OUT LOCKING SLIDE LINK
DO NOT REMOVE THESE TWO SCREWS UNLESS YOU WISH TO SEPARATE MIRROR CAGE FROM FRONT PLATE
F
FX
2 REMOVE TWO SCREWS
3 LIFT OUT FRONT PLATE AND MIRROR CAGE AS ONE UNIT

37

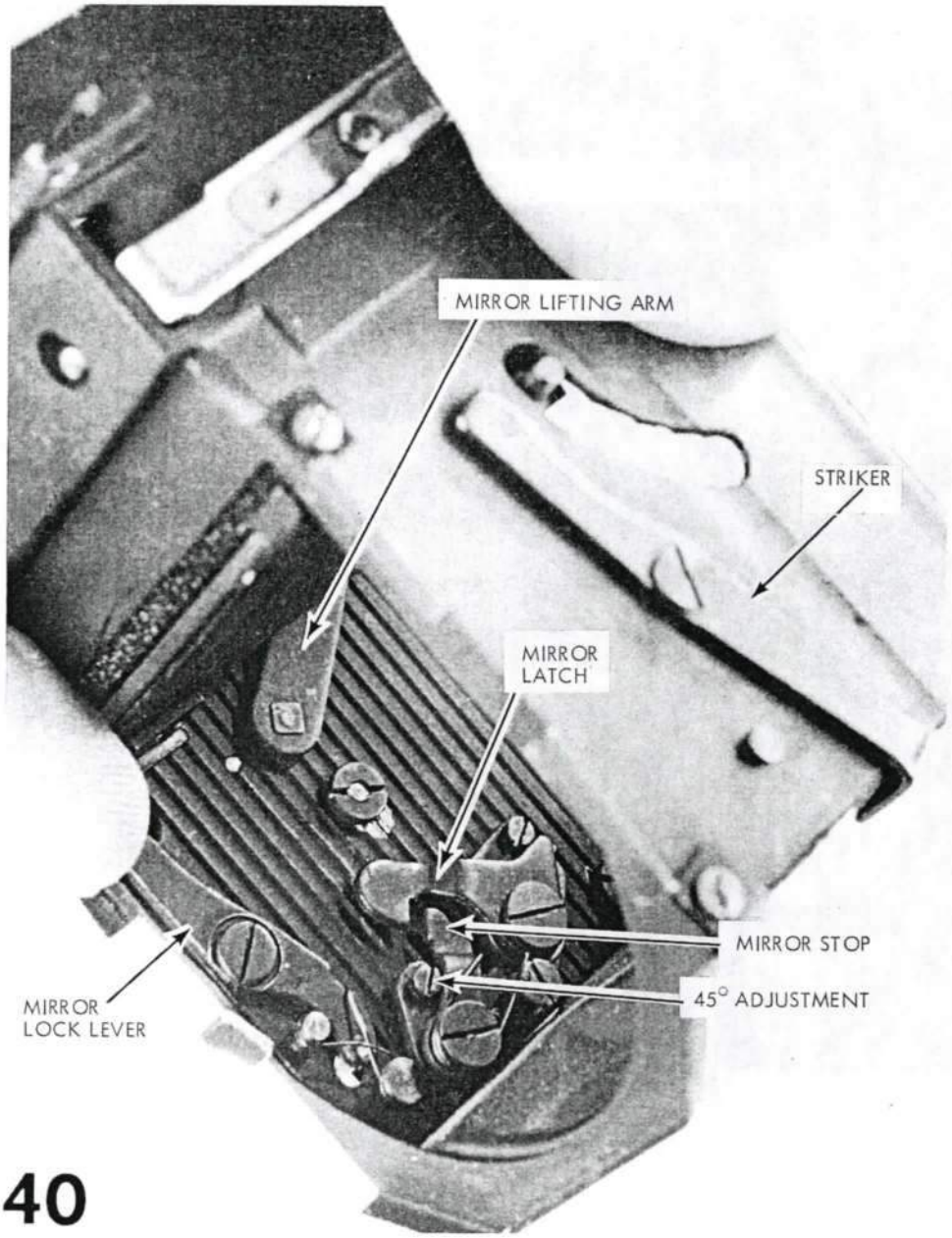
DELAYED-ACTION MECHANISM HAS BEEN REMOVED TO ALLOW CLEARER VISIBILITY OF MIRROR PARTS

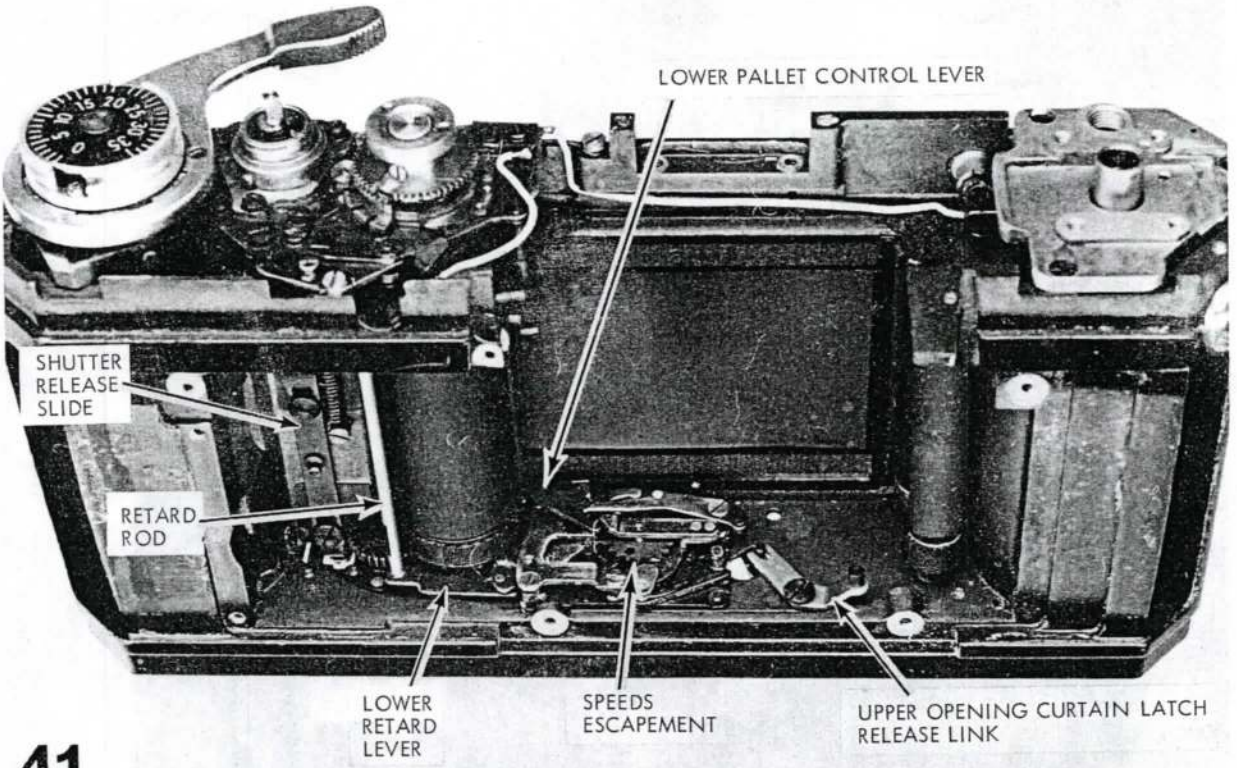


38 TO SEPARATE THE MIRROR CAGE FROM THE FRONT PLATE, REMOVE THE TWO REMAINING SCREWS AT THE TOP OF THE MIRROR CAGE (FIGURE 37)

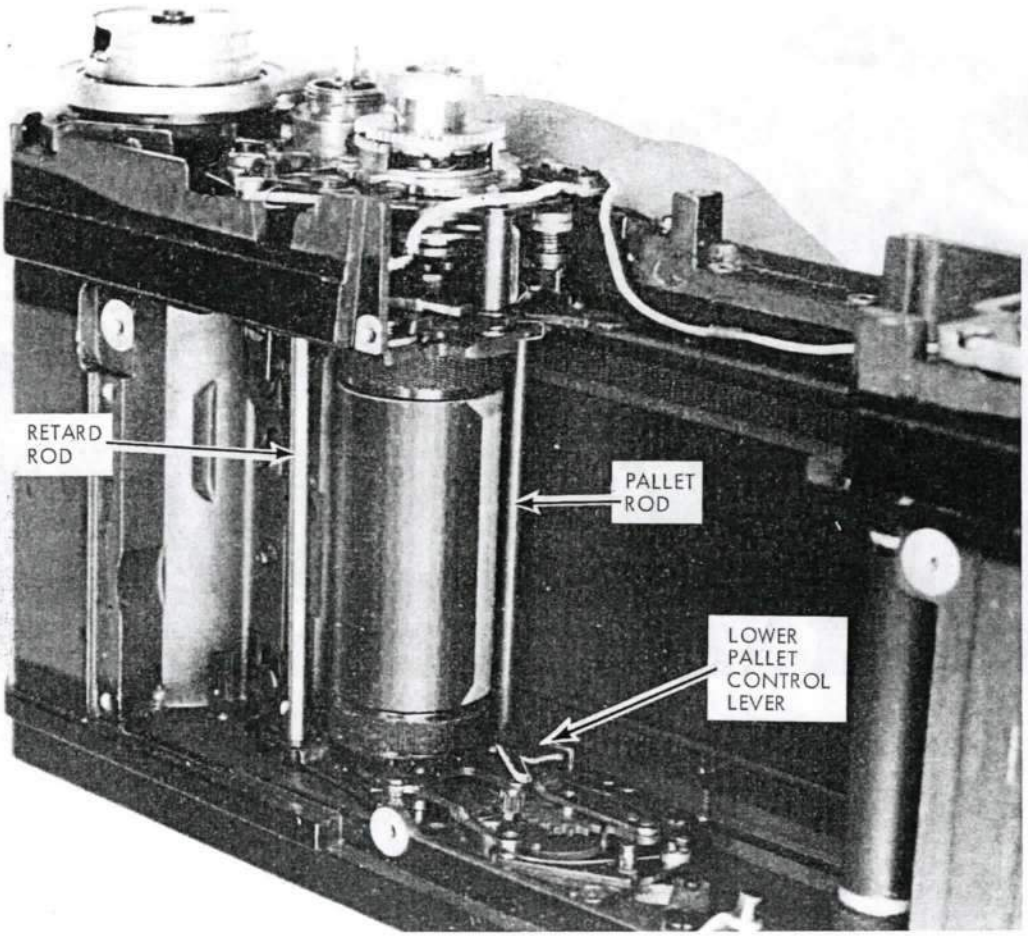

MIRROR LIFTING LEVER
MIRROR TENSIONING LEVER
MIRROR RELEASE SLIDE
LINK SPRING
DIAPHRAGM CLOSING LEVER
MIRROR LIFTING SPRING

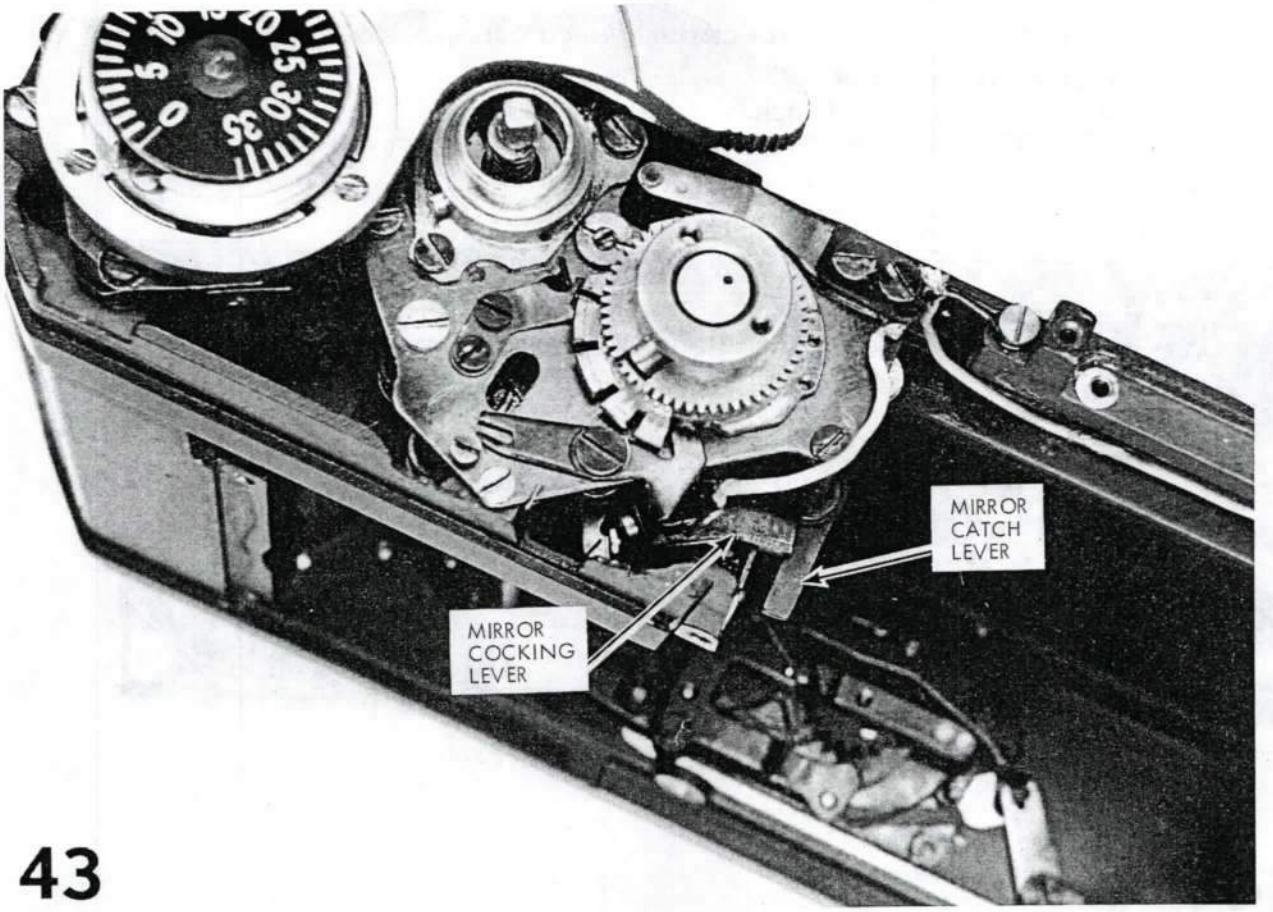
39


MIRROR LIFTING ARM
STRIKER
MIRROR LATCH
MIRROR STOP
45° ADJUSTMENT
MIRROR LOCK LEVER


LOWER PALLET CONTROL LEVER
SHUTTER RELEASE SLIDE
RETARD ROD
LOWER RETARD LEVER
SPEEDS ESCAPEMENT
UPPER OPENING CURTAIN LATCH RELEASE LINK

41


RETARD ROD
PALLET ROD
LOWER PALLET CONTROL LEVER



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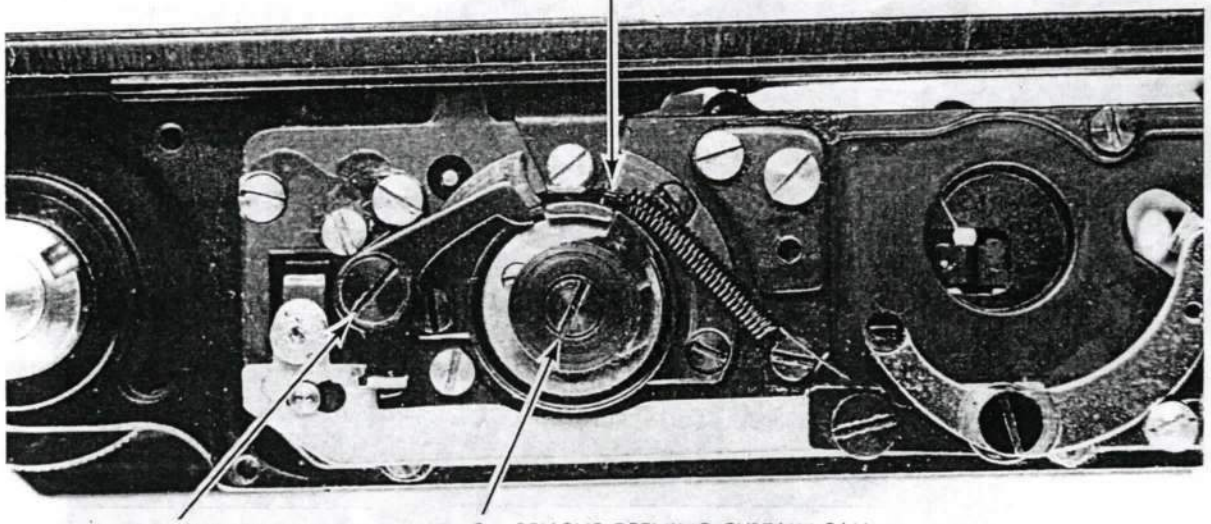
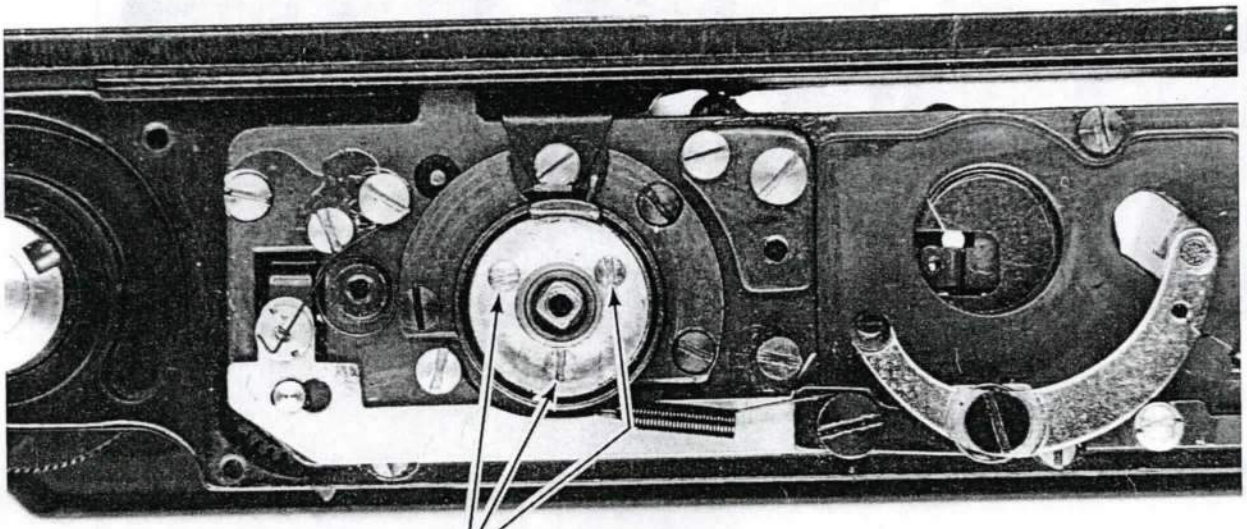
TO DISASSEMBLE BRAKE MECHANISM FOR OBSERVATION, CLEANING, OR MAINTENANCE:

1 LET OFF CURTAIN TENSIONS
2 REMOVE OPENING CURTAIN LATCH
3 DISCONNECT FRONT BRAKE SPRING FROM END OF OPENING CURTAIN BRAKE SPRING

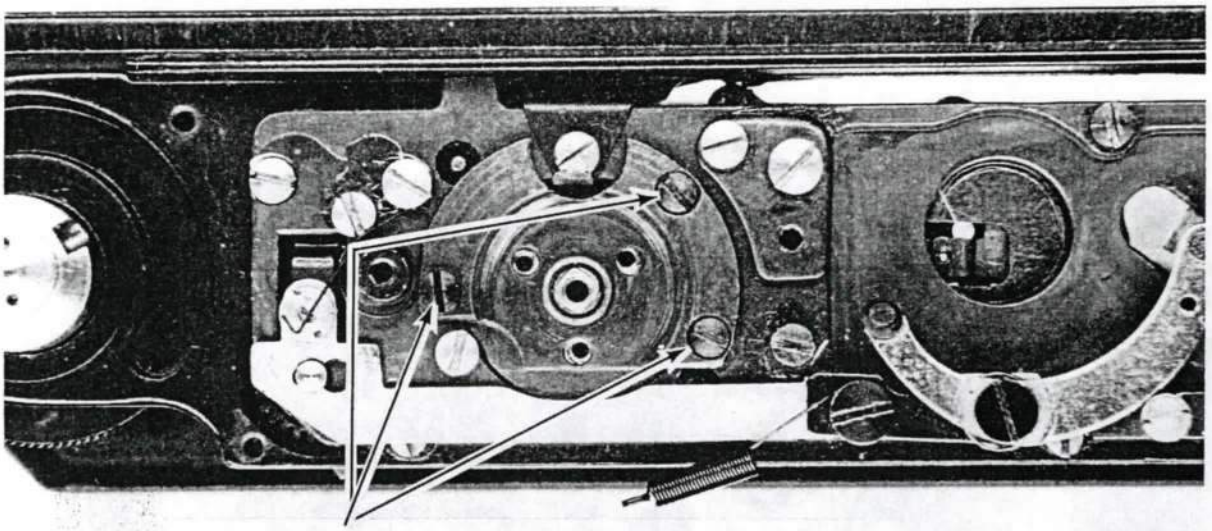


4 REMOVE SECONDARY LOCKING PAWL

5 REMOVE OPENING CURTAIN CAM

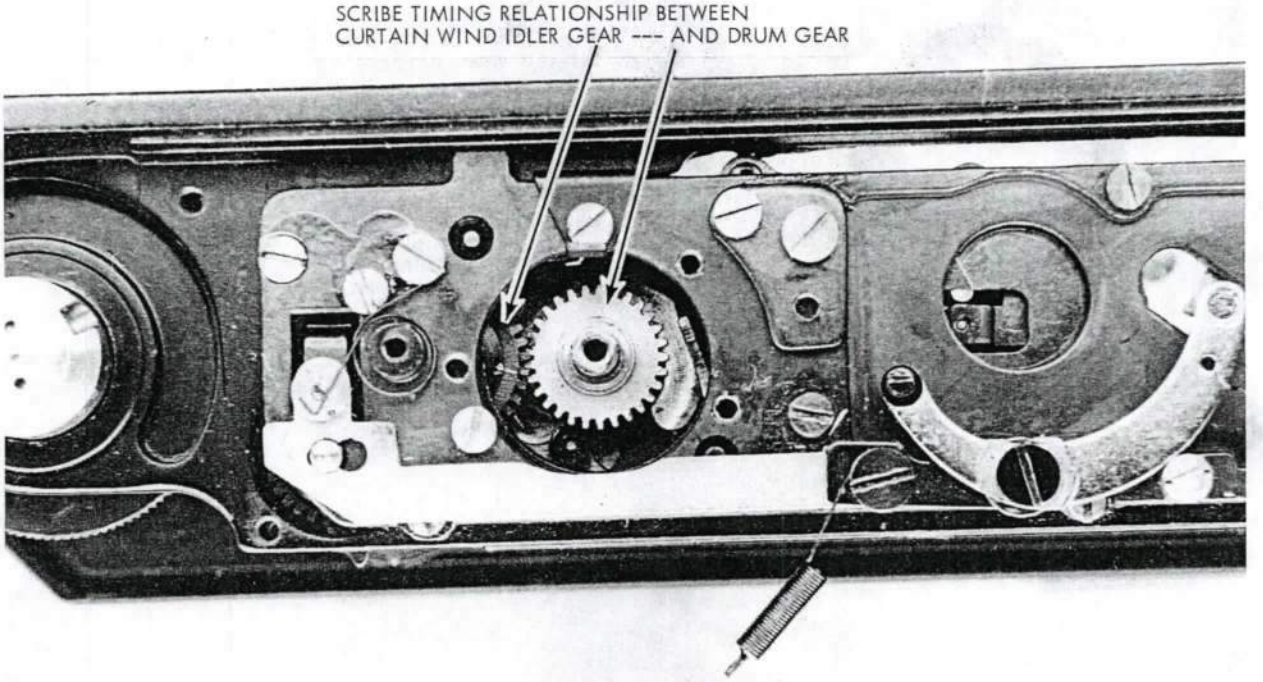


REMOVE THREE SCREWS AND LIFT OFF OPENING CURTAIN BRAKE ASSEMBLY

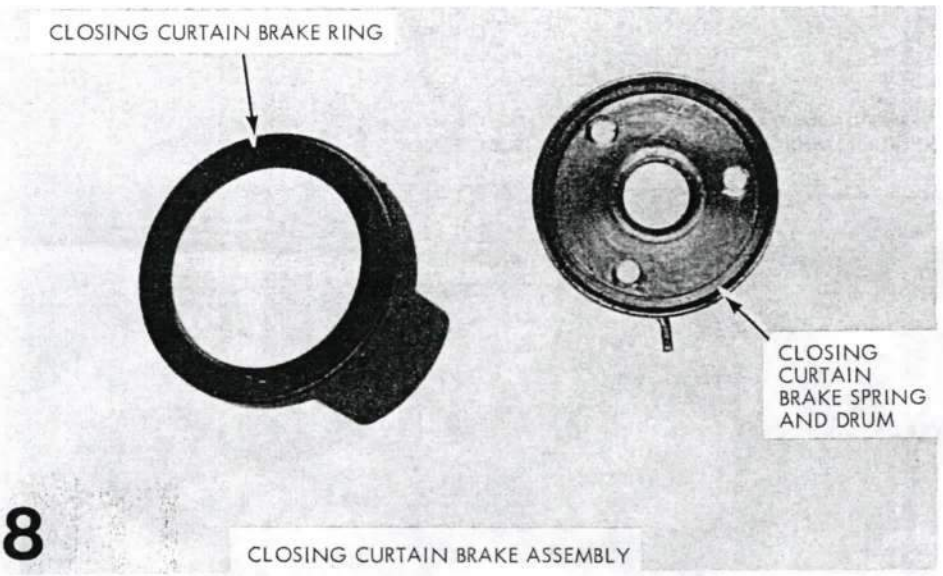


1 REMOVE THREE SCREWS AND LIFT OFF BRAKE COVER PLATE

2 LIFT OUT CLOSING CURTAIN BRAKE ASSEMBLY


SCRIBE TIMING RELATIONSHIP BETWEEN
CURTAIN WIND IDLER GEAR --- AND DRUM GEAR

47



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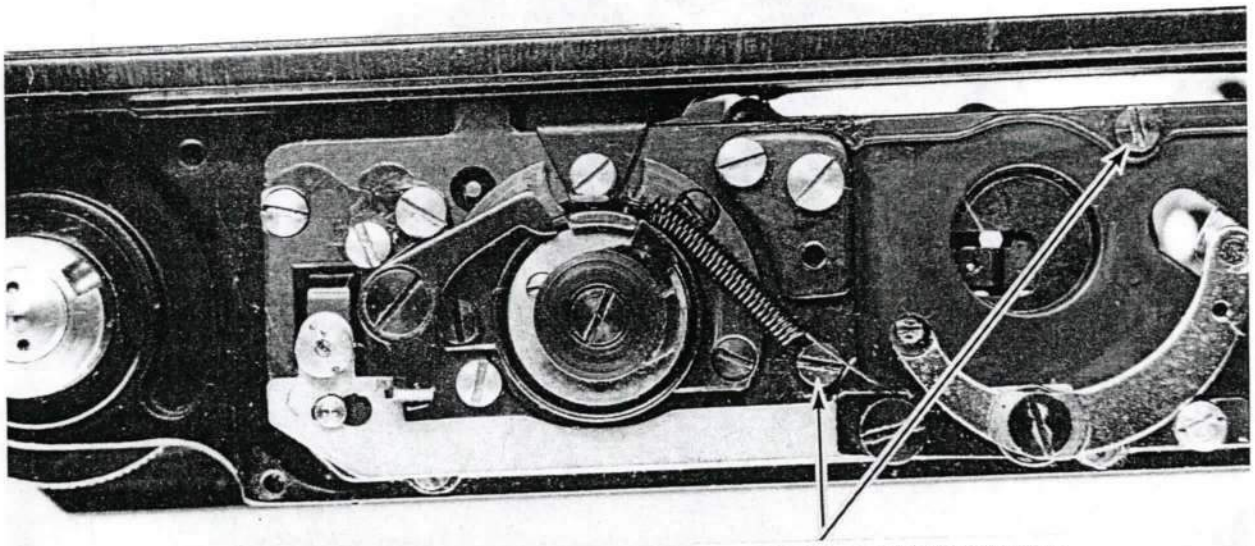
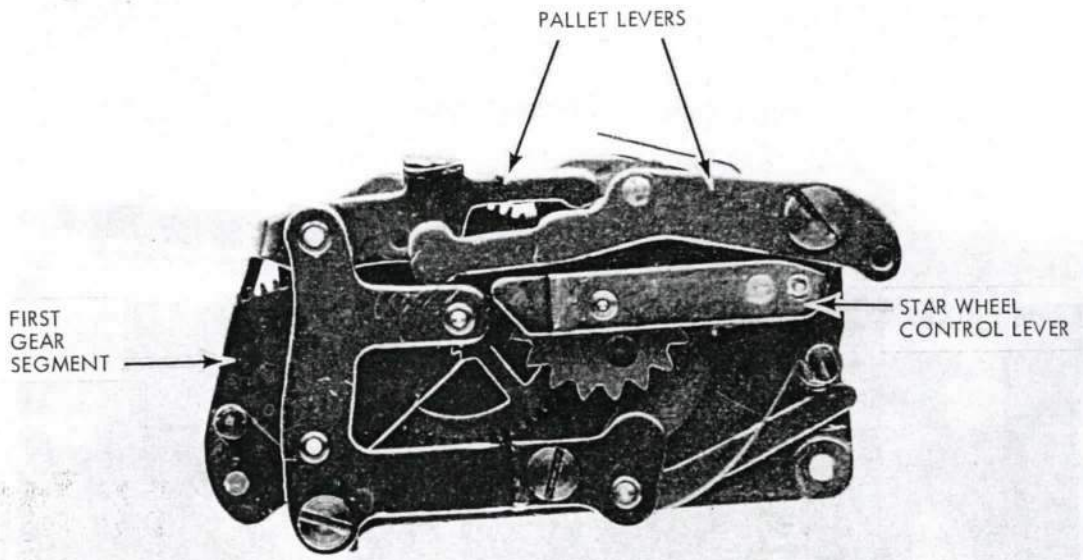
CLOSING CURTAIN BRAKE ASSEMBLY

1 SCRIBE POSITION OF SPEEDS ESCAPEMENT



2 REMOVE SPEEDS ESCAPEMENT RETAINING SCREWS



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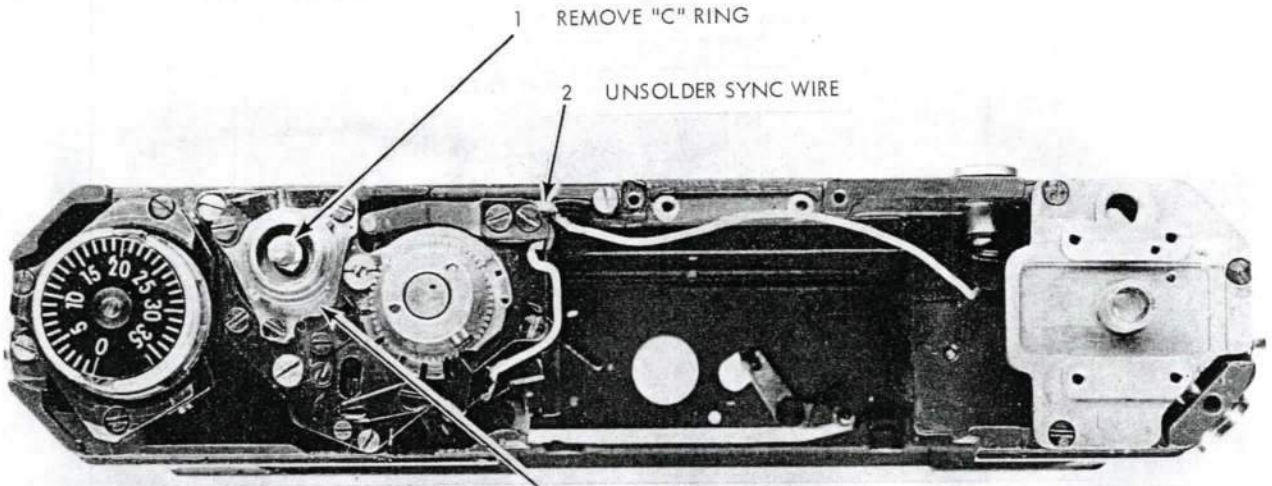
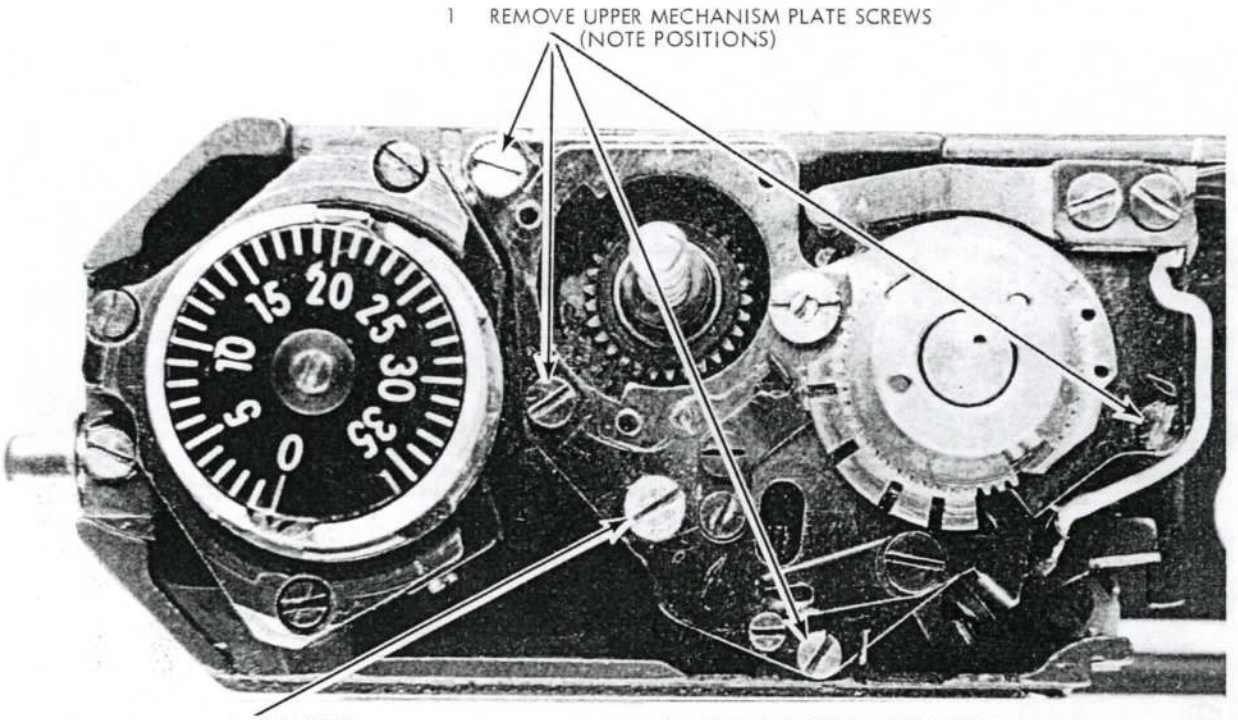
SPEEDS ESCAPEMENT



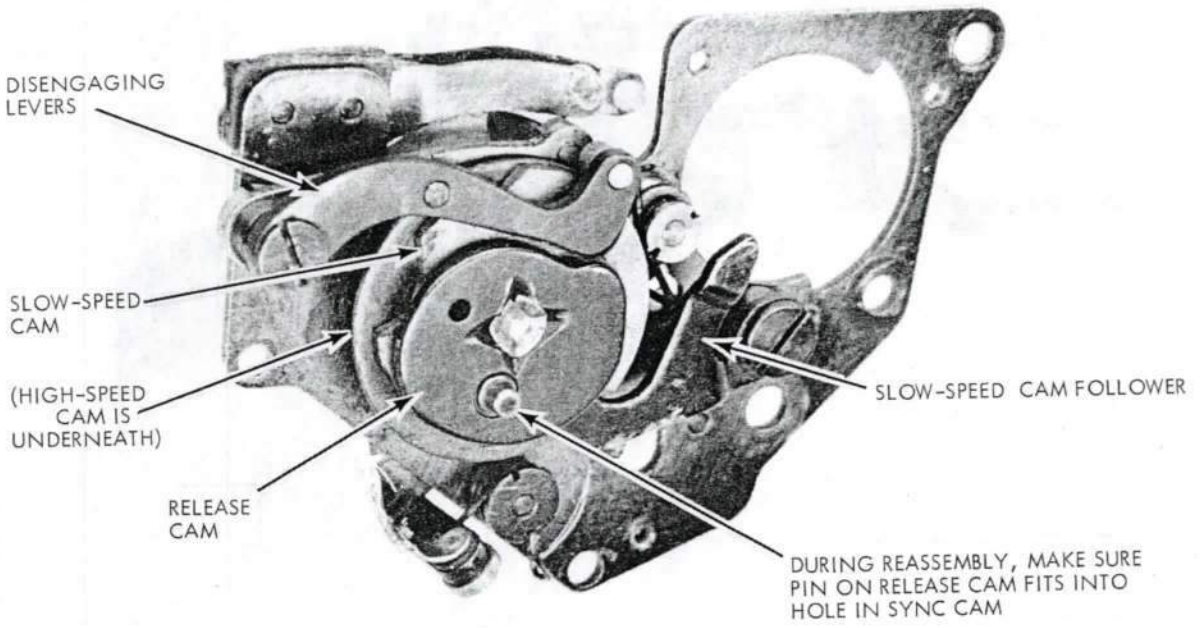
3 SCRIBE POSITION OF RELEASE SUPPORT PLATE WITH REFERENCE TO UPPER MECHANISM PLATE

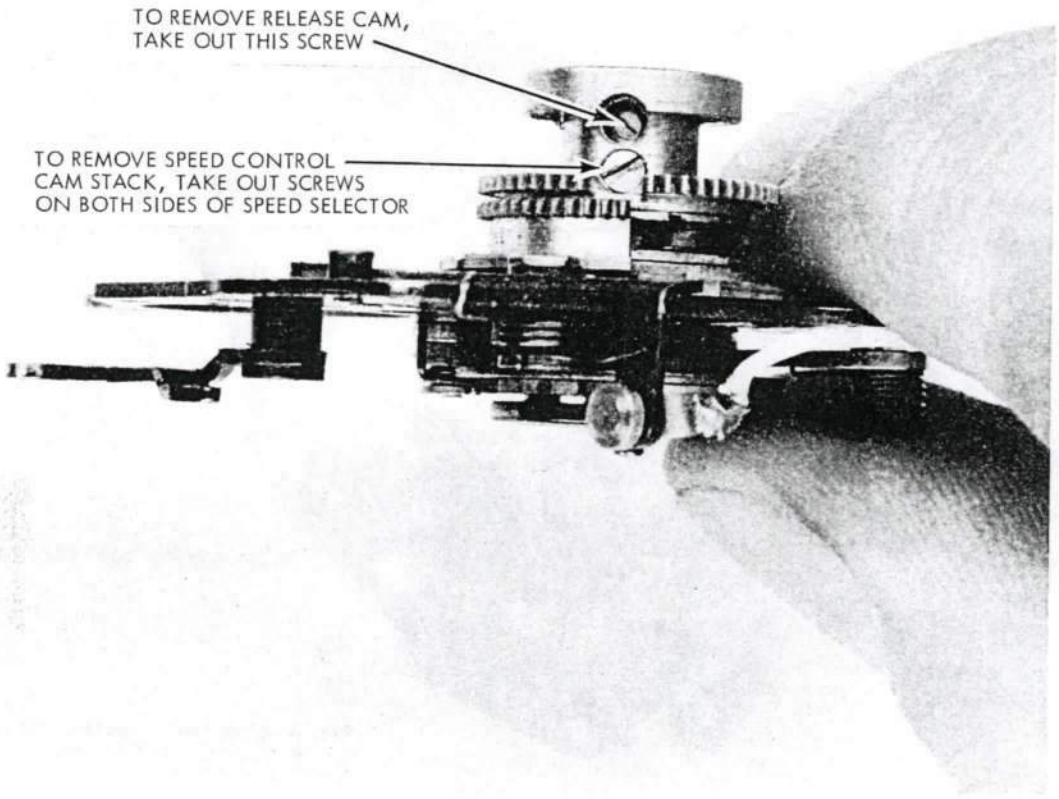
4 REMOVE THREE SCREWS HOLDING RELEASE SUPPORT PLATE (TWO SCREWS ALSO HOLD A/R COLLAR DETENT)

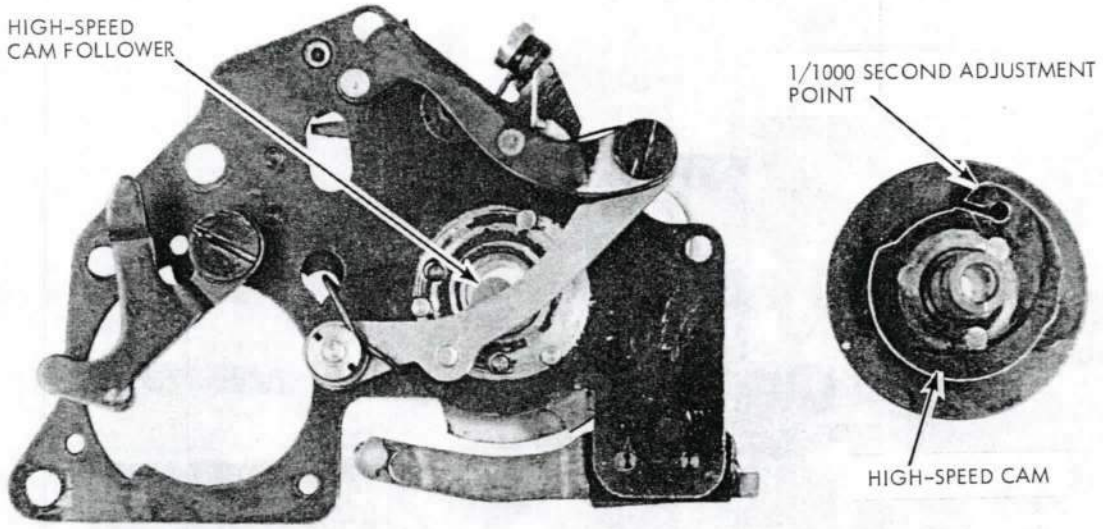
5 LIFT OFF RELEASE SUPPORT PLATE

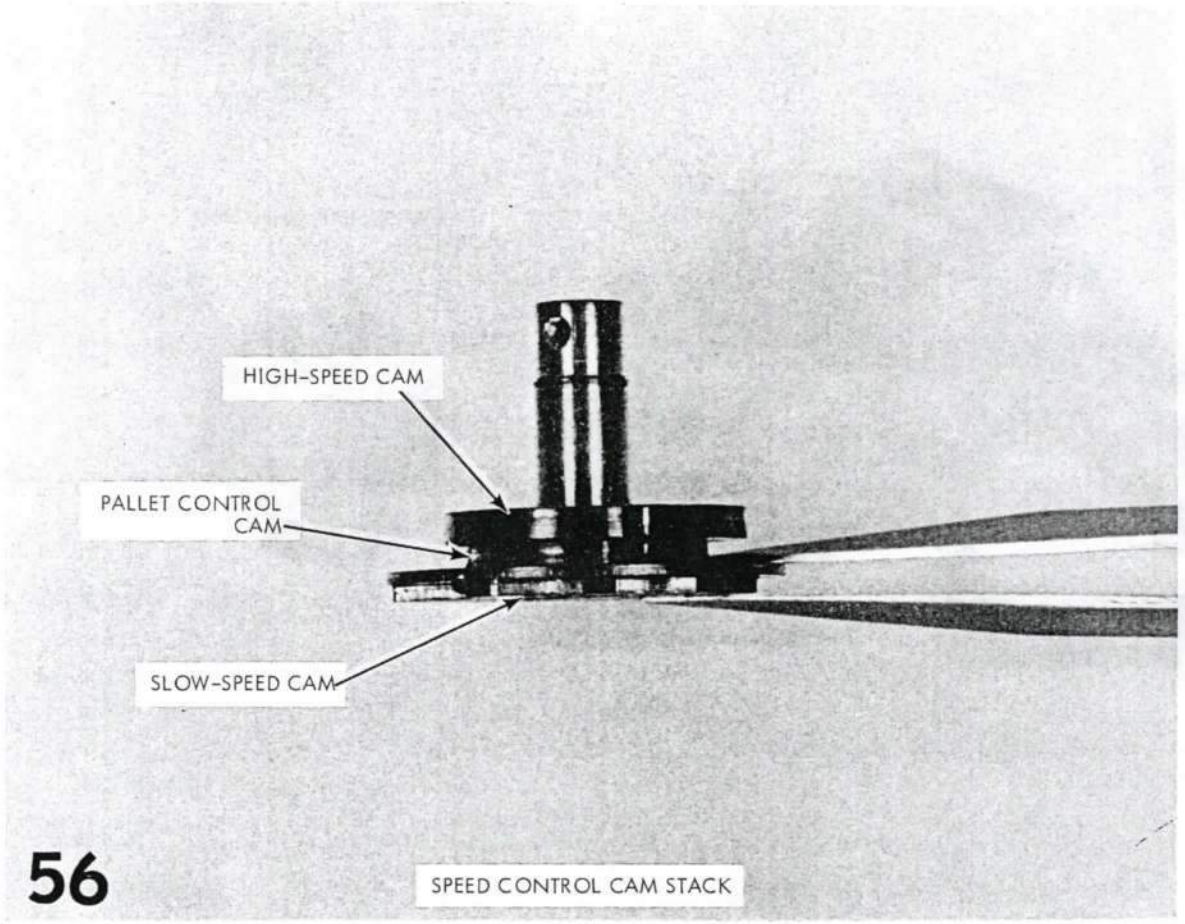

1 REMOVE UPPER MECHANISM PLATE SCREWS (NOTE POSITIONS)
2 REMOVE UPPER RETARD LEVER SCREW
3 LIFT OFF UPPER MECHANISM PLATE

BOTTOM OF UPPER MECHANISM PLATE


DISENGAGING LEVERS
SLOW-SPEED CAM
(HIGH-SPEED CAM IS UNDERNEATH)
RELEASE CAM
SLOW-SPEED CAM FOLLOWER
DURING REASSEMBLY, MAKE SURE PIN ON RELEASE CAM FITS INTO HOLE IN SYNC CAM


TO REMOVE RELEASE CAM,
TAKE OUT THIS SCREW
TO REMOVE SPEED CONTROL
CAM STACK, TAKE OUT SCREWS
ON BOTH SIDES OF SPEED SELECTOR


HIGH-SPEED
CAM FOLLOWER
1/1000 SECOND ADJUSTMENT
POINT
HIGH-SPEED CAM



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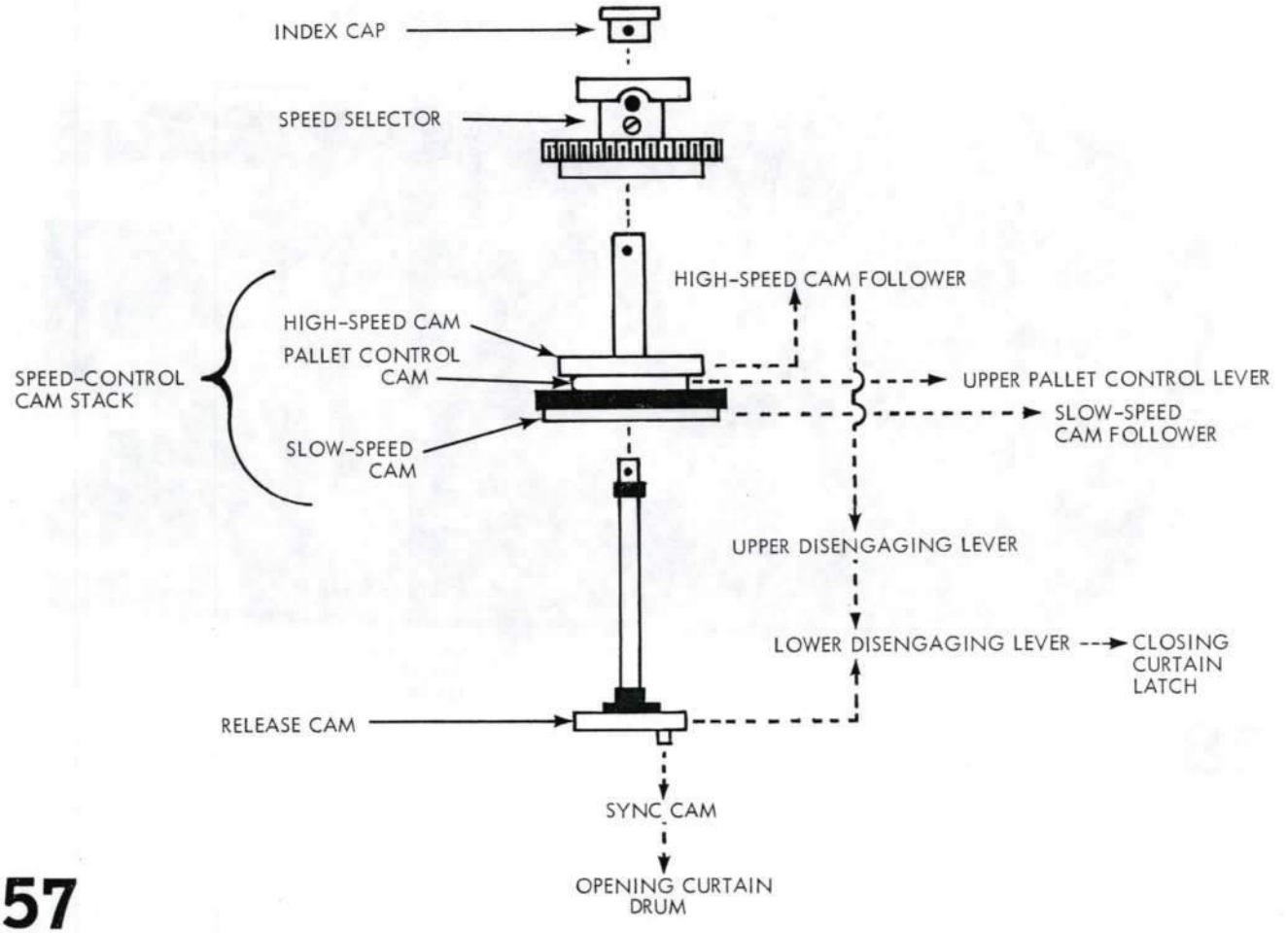
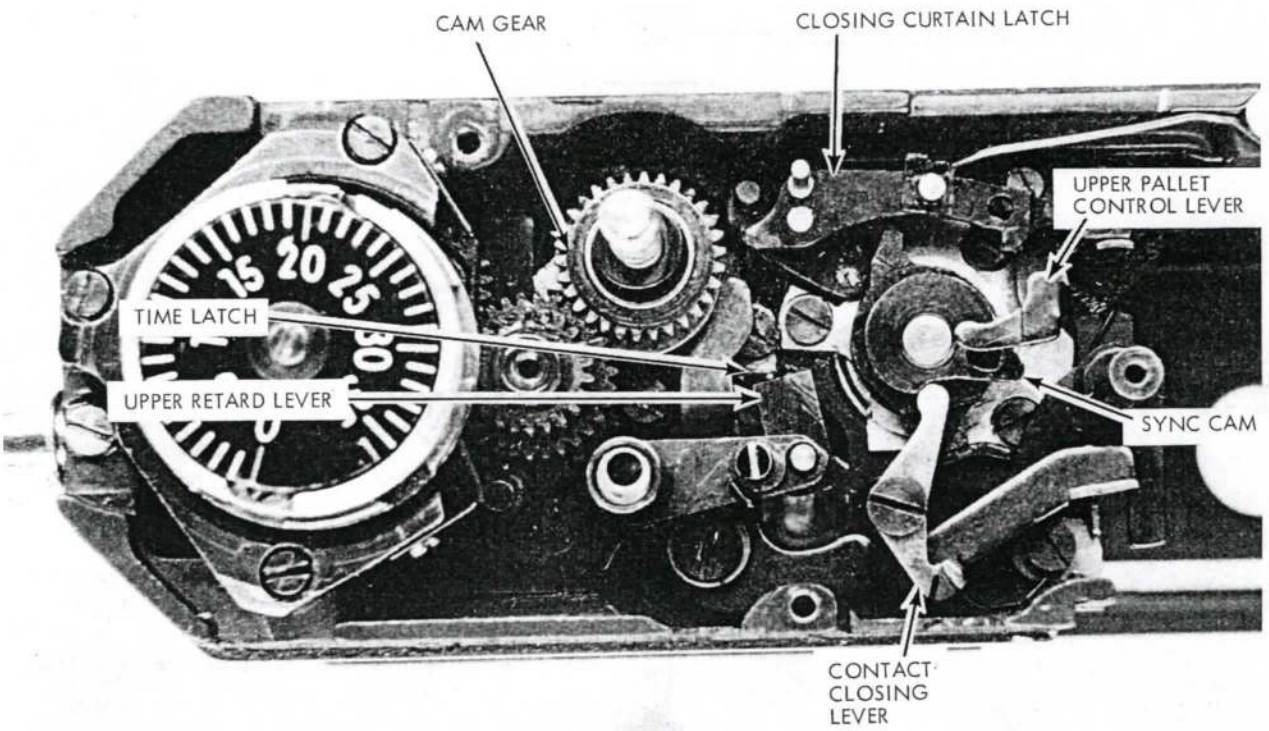
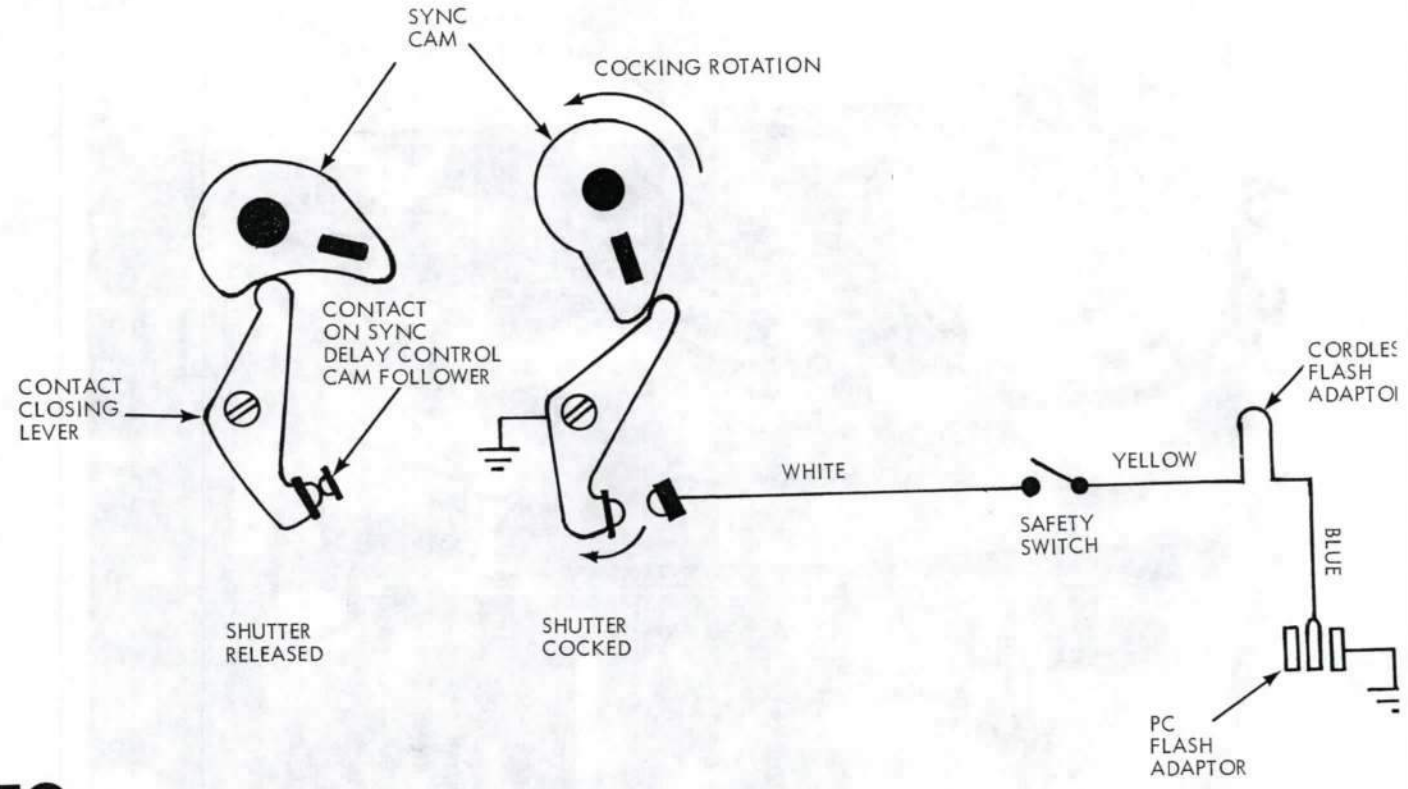
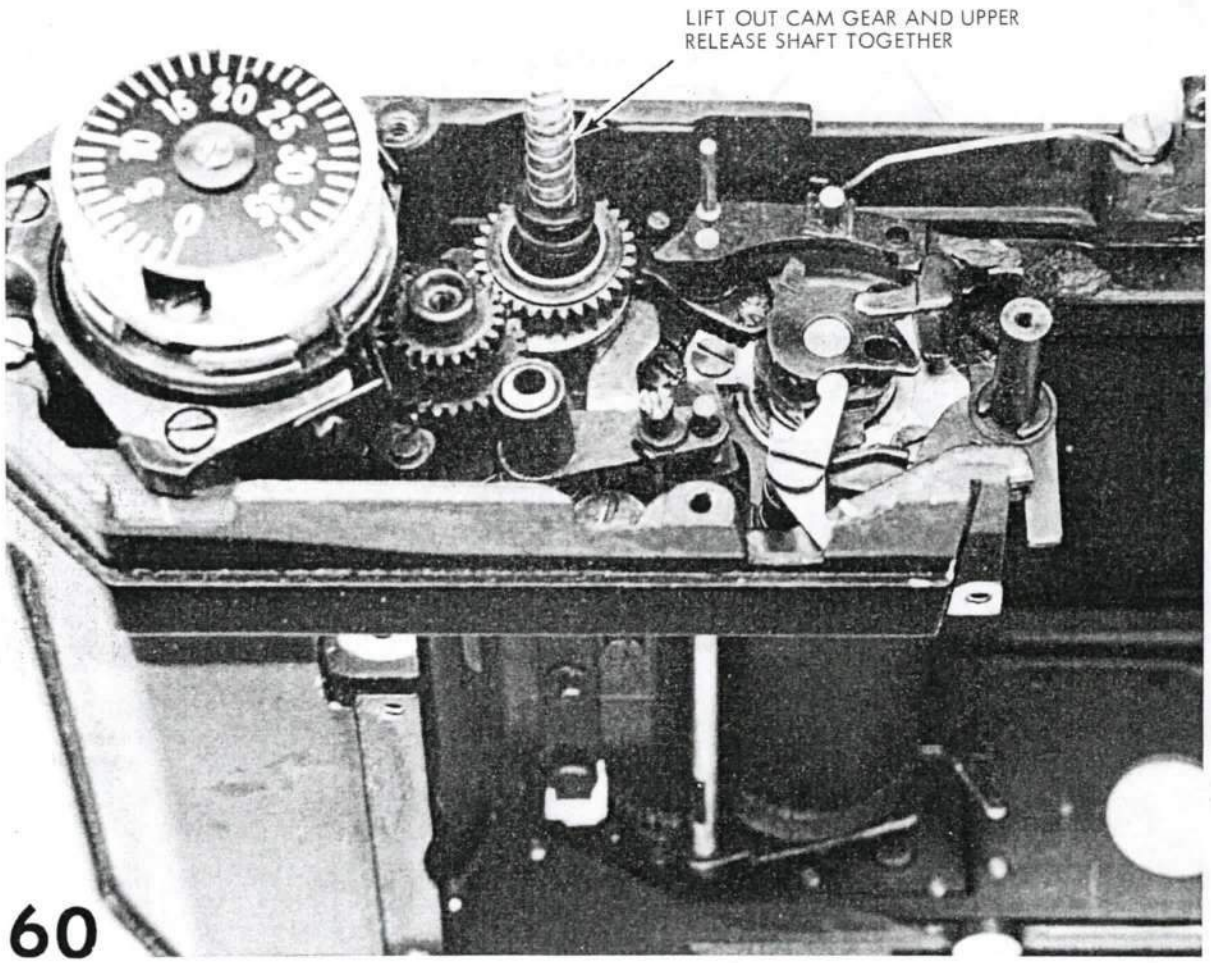
SPEED CONTROL CAM STACK

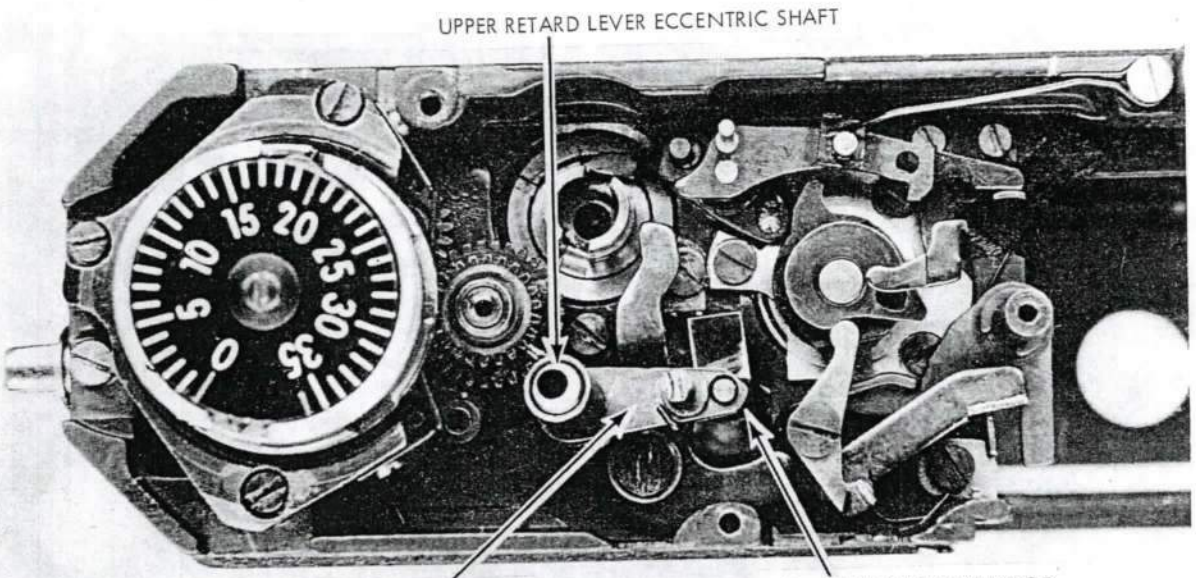

INDEX CAP
SPEED SELECTOR
HIGH-SPEED CAM FOLLOWER
HIGH-SPEED CAM
PALLET CONTROL CAM
SPEED-CONTROL CAM STACK
SLOW-SPEED CAM
UPPER PALLET CONTROL LEVER
SLOW-SPEED CAM FOLLOWER
UPPER DISENGAGING LEVER
LOWER DISENGAGING LEVER
CLOSING CURTAIN LATCH
RELEASE CAM
SYNC CAM
OPENING CURTAIN DRUM


CAM GEAR
CLOSING CURTAIN LATCH
UPPER PALLET CONTROL LEVER
TIME LATCH
UPPER RETARD LEVER
SYNC CAM
CONTACT CLOSING LEVER
15
20
25
30


SYNC
CAM
COCKING ROTATION
CONTACT
ON SYNC
DELAY CONTROL
CAM FOLLOWER
CONTACT
CLOSING
LEVER
WHITE
YELLOW
CORDLES
FLASH
ADAPTOI
SAFETY
SWITCH
BLUE
SHUTTER
RELEASED
SHUTTER
COCKED
PC
FLASH
ADAPTOR



60



1 DISCONNECT UPPER RETARD LEVER SPRING AND LIFT OFF UPPER RETARD ADJUSTMENT LEVER

2 LIFT OUT RETARD ROD (WATCH COMPRESSION SPRING AT LOWER END OF RETARD ROD)

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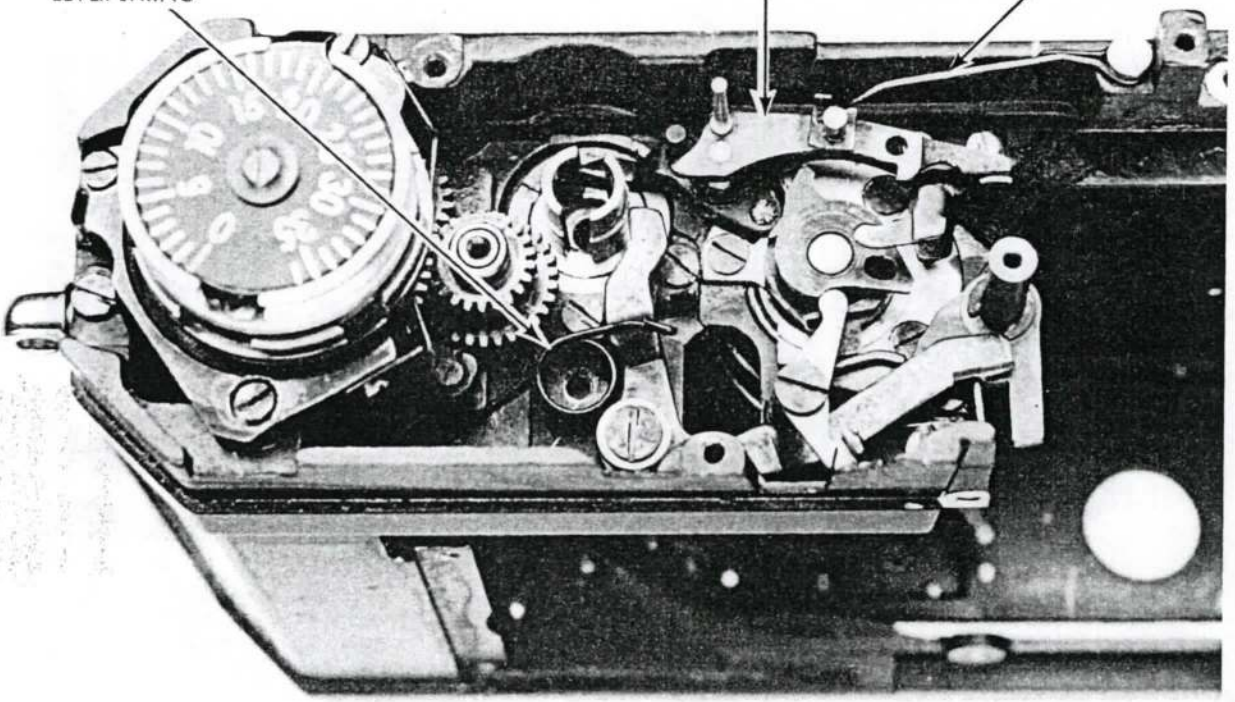
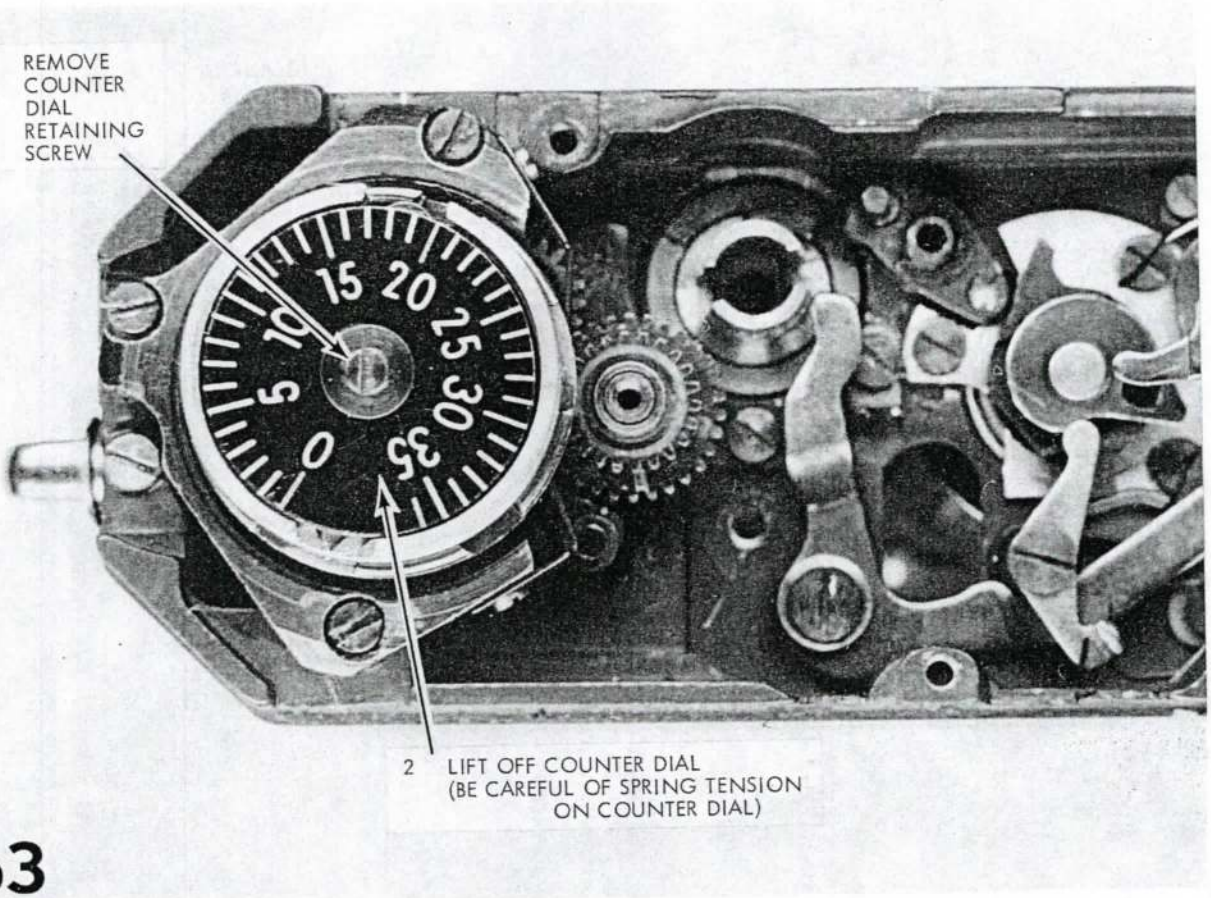
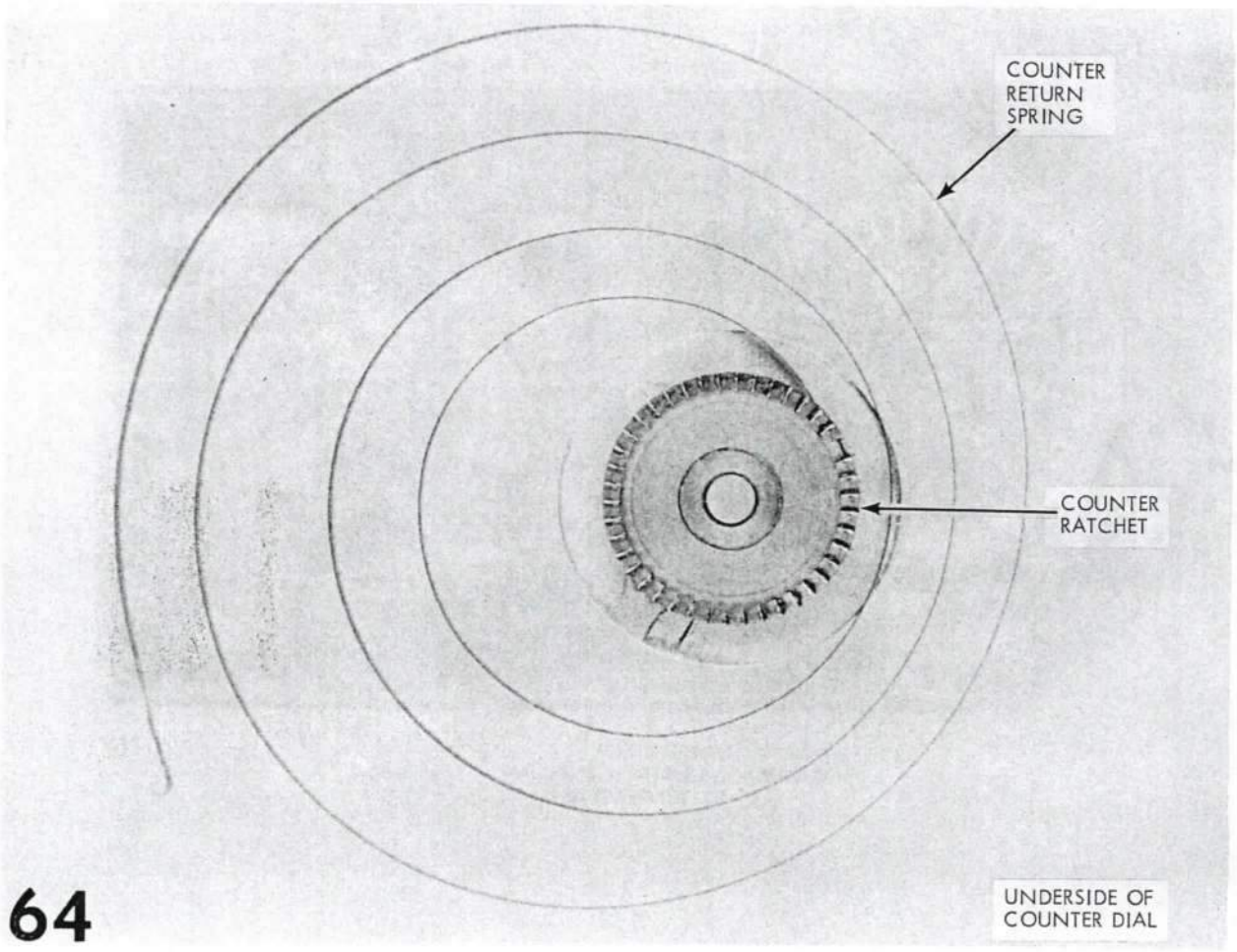
1 REMOVE UPPER RETARD ADJUSTMENT LEVER SPRING

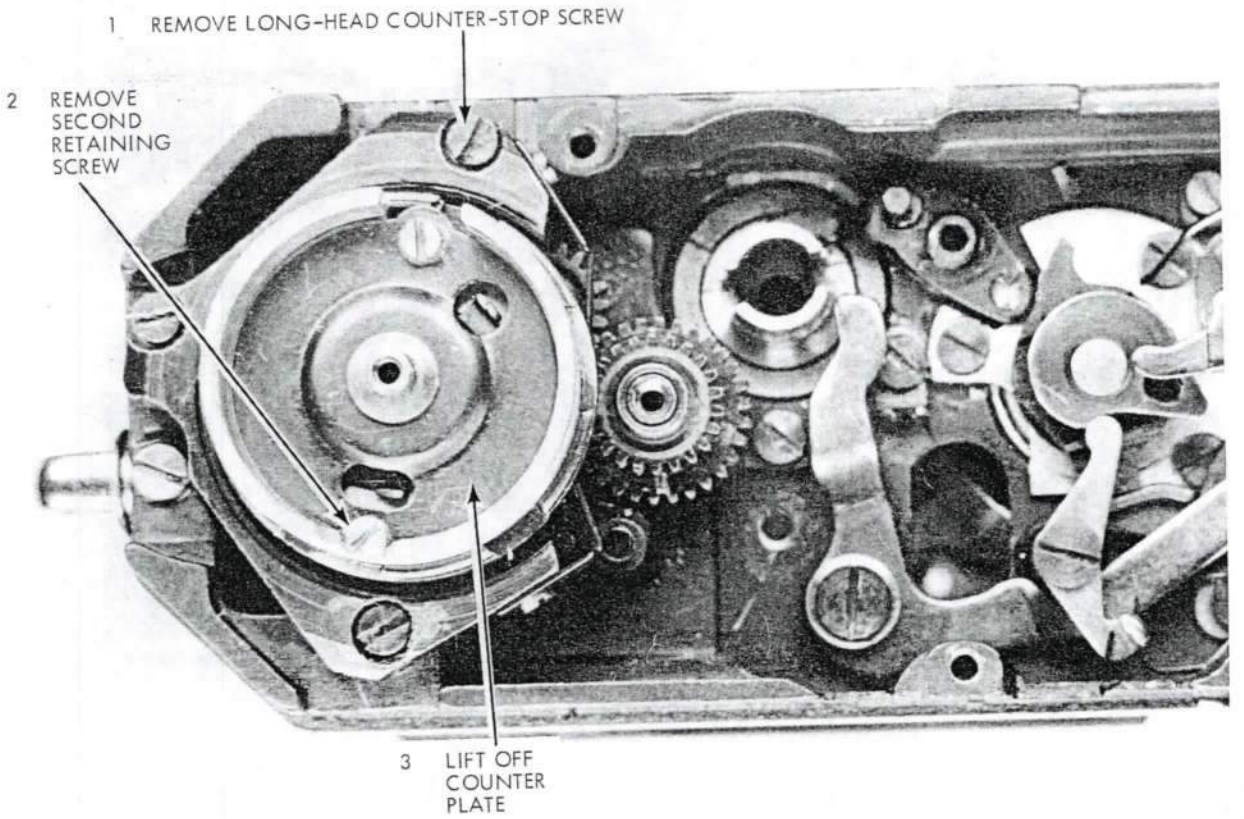
2 DISCONNECT CLOSING CURTAIN LATCH SPRING AND LIFT OUT CLOSING CURTAIN LATCH



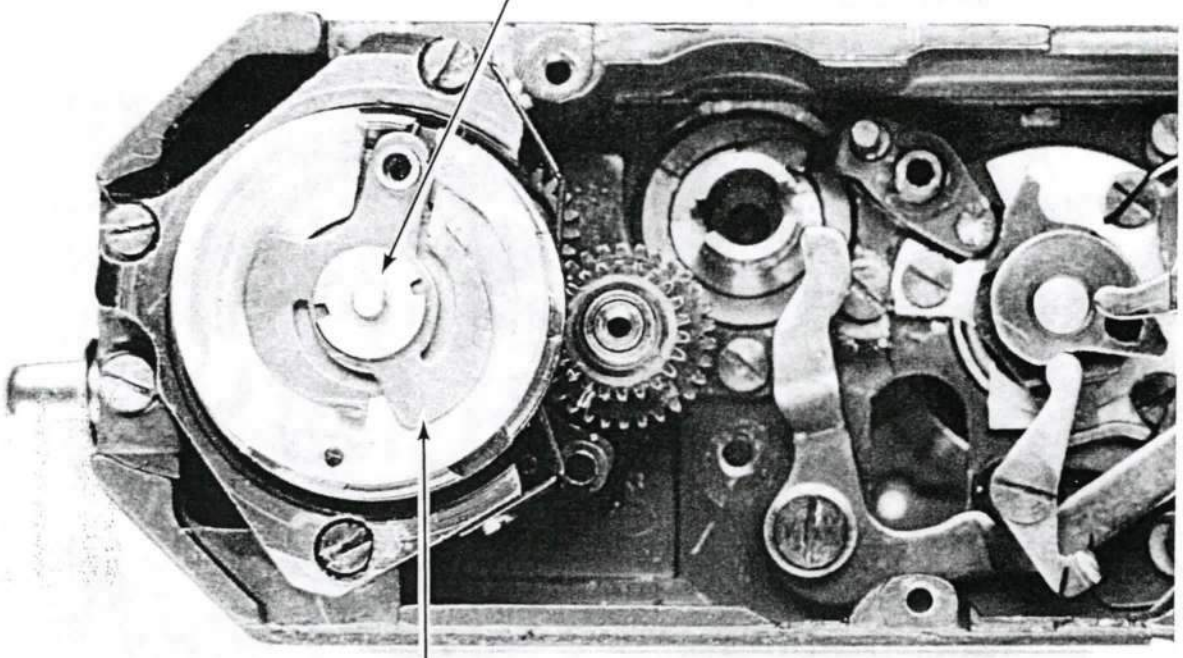

1 REMOVE COUNTER DIAL RETAINING SCREW
2 LIFT OFF COUNTER DIAL (BE CAREFUL OF SPRING TENSION ON COUNTER DIAL)


COUNTER
RETURN
SPRING
COUNTER
RATCHET
UNDERSIDE OF
COUNTER DIAL

64


1 REMOVE LONG-HEAD COUNTER-STOP SCREW
2 REMOVE SECOND RETAINING SCREW
3 LIFT OFF COUNTER PLATE

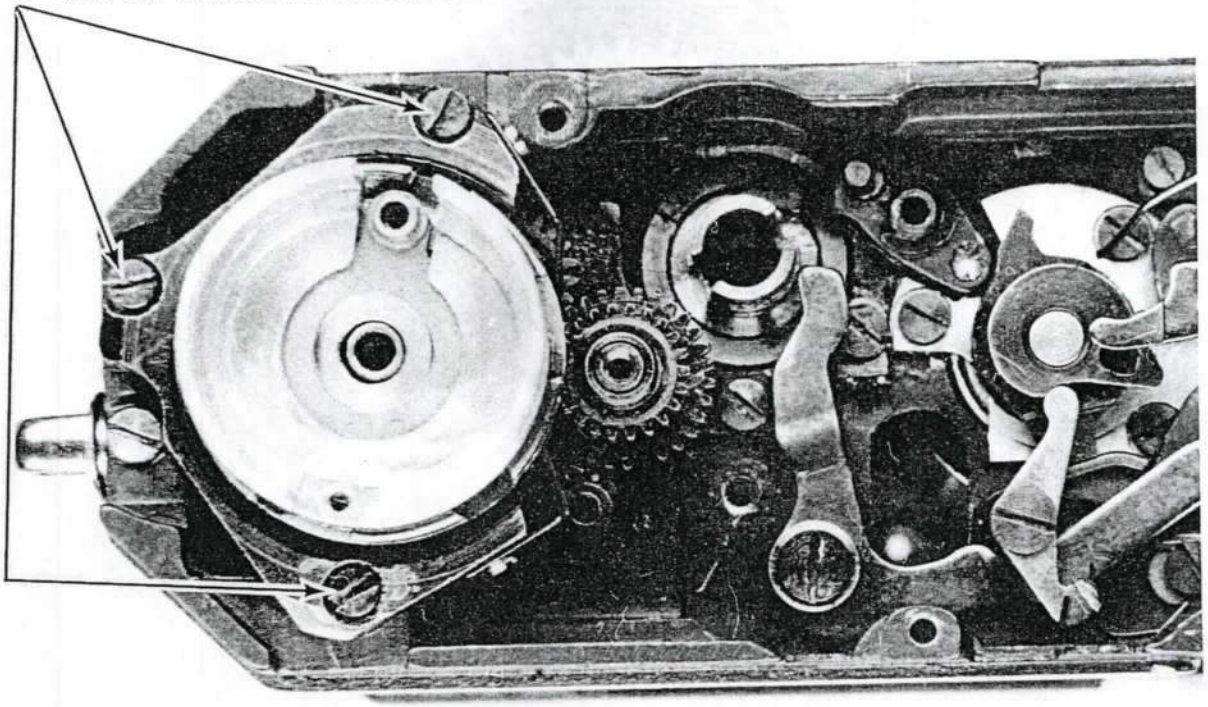
1 UNSCREW LEFT-HAND COUNTER ECCENTRIC SHAFT

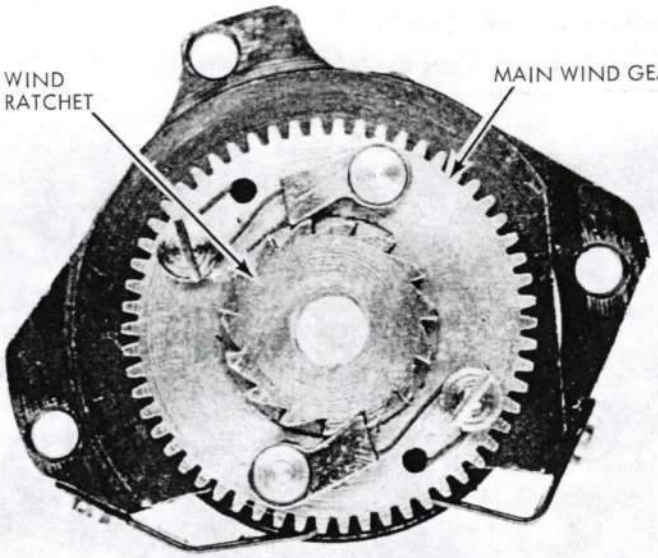


2 LIFT OFF COUNTER PAWL
(WASHER UNDERNEATH)

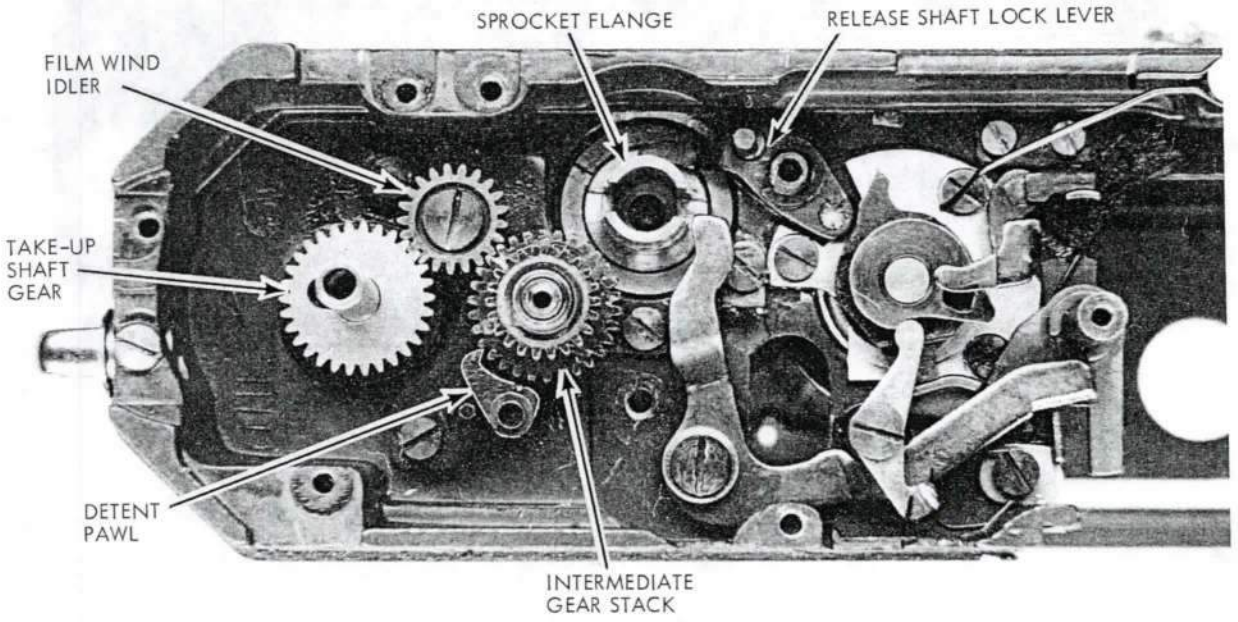
1 SCRIBE POSITION OF MAIN WIND GEAR ASSEMBLY

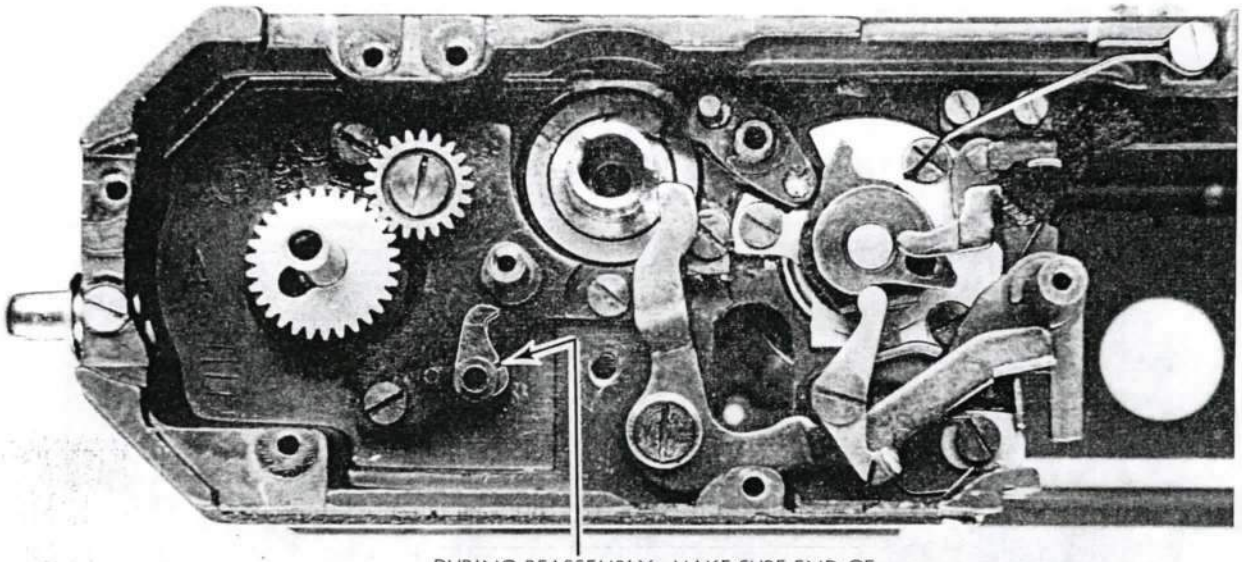
2 TAKE OUT THREE SCREWS AND LIFT OFF MAIN WIND GEAR ASSEMBLY





UNDERSIDE OF MAIN WIND GEAR ASSEMBLY


SPROCKET FLANGE
RELEASE SHAFT LOCK LEVER
FILM WIND IDLER
TAKE-UP SHAFT GEAR
DETENT PAWL
INTERMEDIATE GEAR STACK



DURING REASSEMBLY, MAKE SURE END OF CLUTCH SPRING ON INTERMEDIATE GEAR STACK SEATS IN DETENT PAWL NOTCH

SPEED ADJUSTMENTS:

1 SET TRAVEL TIME OF OPENING CURTAIN TO 14.5 MILLISECONDS

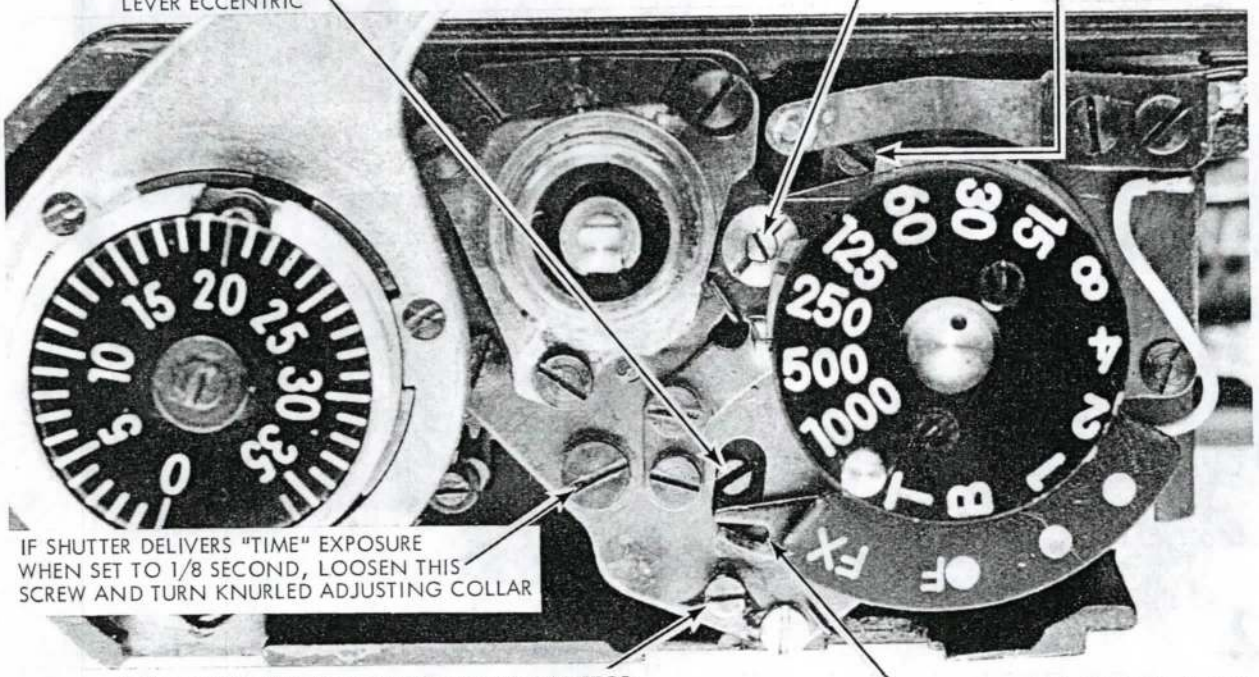
2 SET CLOSING CURTAIN TENSION TO CORRECT SIDE-TO-SIDE VARIATION

3 ADJUST ACCURACY OF 1/60 SECOND WITH DISENGAGING LEVER ECCENTRIC STUD

4 ADJUST ACCURACY OF 1/500 SECOND WITH ECCENTRIC SCREW AT DISENGAGING LEVER PIVOT POINT -- RECHECK 1/60 SECOND

5 ADJUST ACCURACY OF 1/1000 SECOND BY REFORMING SPLIT SECTION OF HIGH-SPEED CAM

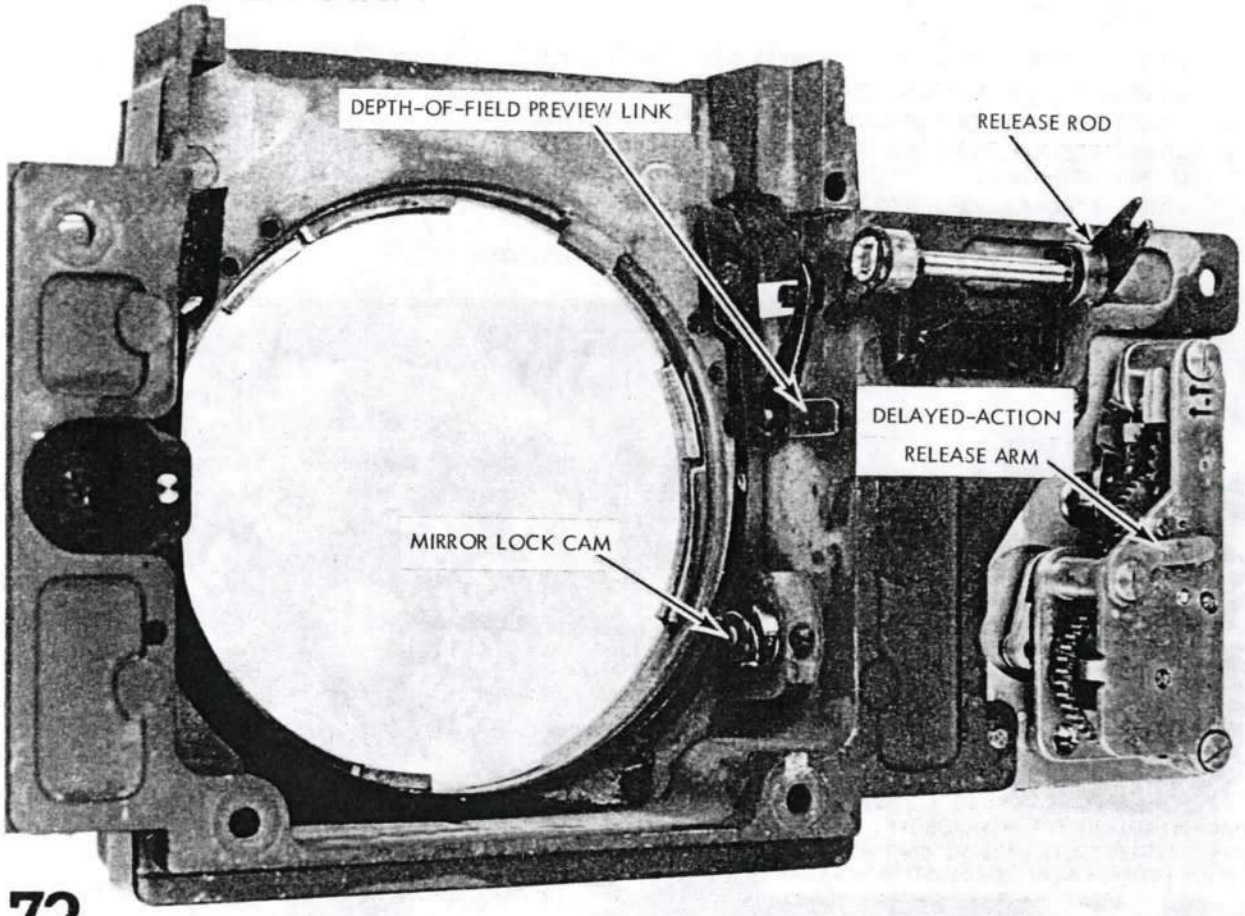
6 ADJUST ACCURACY OF 1/4 SECOND WITH UPPER RETARD ADJUSTMENT LEVER ECCENTRIC



IF SHUTTER DELIVERS "TIME" EXPOSURE WHEN SET TO 1/8 SECOND, LOOSEN THIS SCREW AND TURN KNURLED ADJUSTING COLLAR

ADJUST "X" SYNC BY TURNING ECCENTRIC STOP

OR BY REFORMING SPLIT TAIL OF SYNC DELAY CONTROL CAM FOLLOWER


DEPTH-OF-FIELD PREVIEW LINK
RELEASE ROD
DELAYED-ACTION
RELEASE ARM
MIRROR LOCK CAM

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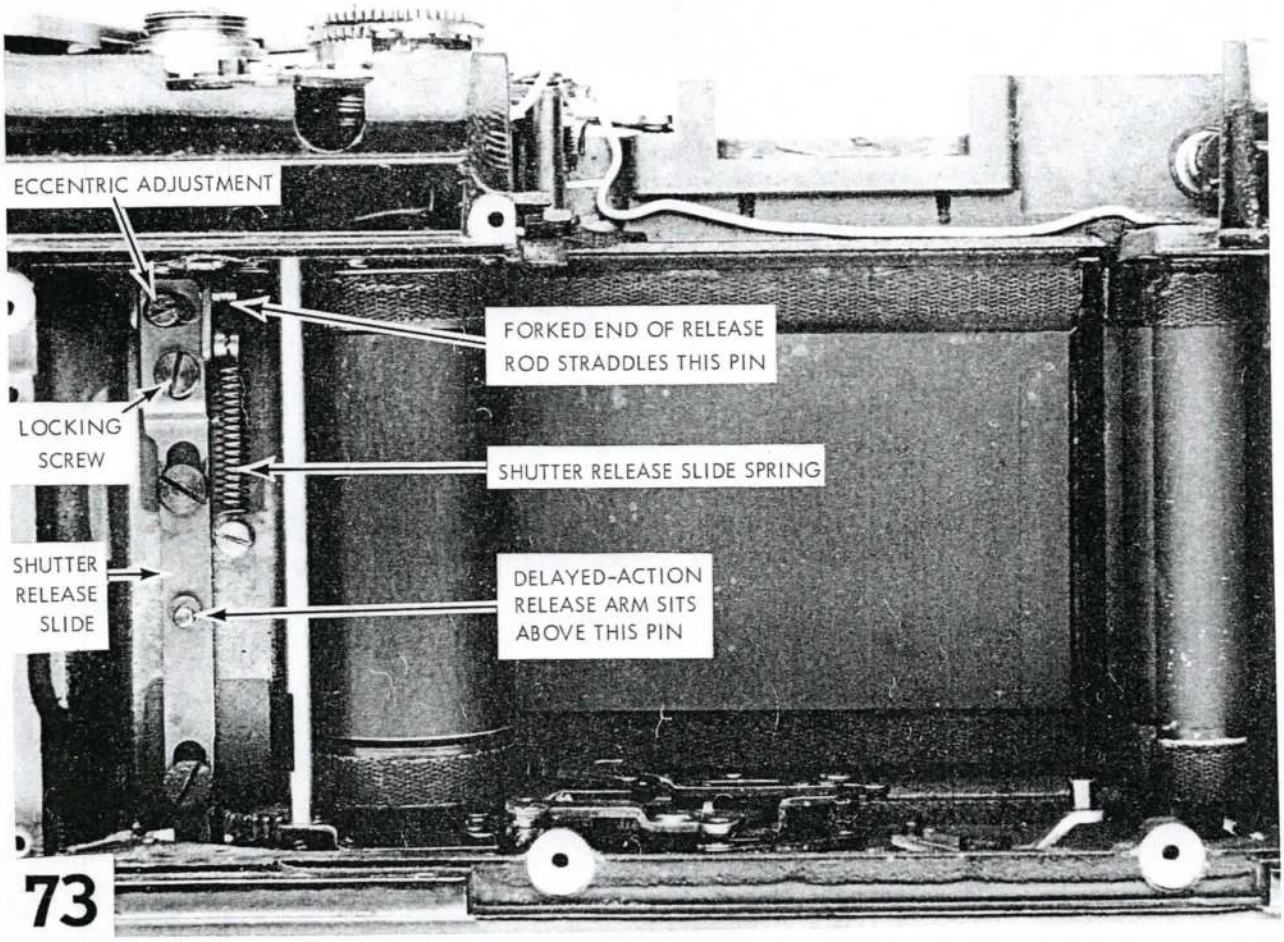
ECCENTRIC ADJUSTMENT
FORKED END OF RELEASE ROD STRADDLES THIS PIN
LOCKING SCREW
SHUTTER RELEASE SLIDE SPRING
SHUTTER RELEASE SLIDE
DELAYED-ACTION RELEASE ARM SITS ABOVE THIS PIN

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